MOLÜMER

PRODUCT CATALOGUE

Honest
Traditional
Innovative
Respectful to Nature
Modest
Compatible

Since 1981

Since 1981...

About Us

Our company has solved many insulation problems in the sector Since 1981, growing with sure steps. Our production started with liquid waterproofing materials under the brand name of MOLUMER. Our factory is located in Torbalı / İzmir, on 5000 square meter area. Our company takes care to provide reliable, comfortable and hassle-free living spaces with respect to its products that do not harm human health and maintains its activities in the construction sector with successful R & D works as well.

Our goal is to share our technical know-how, experience and hardware with our valued practitioners and technical companies, who desire success, prestige and profits, to raise our quality standards, open to continuous improvement, to provide the best quality services with the best quality products, to be trusted and accepted in the market. Our aim is also to solve all insulation problems with guarantees. Our main goal is to respond to expectations with the best solutions.

OUR VISION

Our vision is to provide safe, comfortable and living spaces with our products without any trouble, that respect to the nature and do not harm the human health.

OUR MISSION

Our mission is to produce products that are compatible with nature's life principles and technology, compatible with different types of buildings, useful and long lasting products and serve to our stakeholders and end consumers as well with the responsibility of the consultant company.

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MOLÜMER

CEMENT BASED WATERPROOFING PRODUCTS

Extra Elastic, High UV Resistant,
Cement Based Waterproofing, 2 Component

PL02

Definition

It's a cement based, copolymer, full elastic waterproofing material with high adhesion ability and UV-stability.

Areas of Use

- Reinforced concrete and screed terraces
- Hidden roofs and rain gutters
- Concrete and iron water tanks
- Olive storerooms
- Hot and cool thermal pools
- Elevator shafts
- Sewage and wastewater treatment facilities
- Reinforced concrete pipes and tunnels
- Parking garages and lots
- Againts water pressure, negative (inside) applications in basement floors and walls
- Groundworks and walls exposed to seawater
- To fill in capilary cracks on reinforces concrete buildings
- Againts growth of plant roots on garden terraces.

Specifications

- The layer formed after drying has expansion ability.
- High resistance against UV-lights.
- It is full elastic.
- Provides diffusion control by condensing water vapor.
- Resistant against human and vehicle traffic.
- Suitable to contact with drinking water.
- Can be applied on horizontal and vertical surfaces.

Reference Standard

-TS EN 14891

Resistant to contact with chlorinated water, cement based waterproofing product.
Type: CMP

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of surface

- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- The surface should be primed or leveled to obtain a firm surface.
- Repair-Protection Mortar should be used for repairing and filling gaps and cavities on surface.
- Molumer PL02 should not be applied on wet surface. It's possible to apply on humid surface.

Conditions of application

- Newly applied material should be protected from frost and rain.
- Molumer PL02 should be applied after waiting at least 21 days on new screed but application can be done after 7-10 days depending on the weather temperature on Molumer Concrete Admixture added screed.

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.
Waiting period between layers: ~ 8 hours at 10°C.
~ 4 hours at 20°C.
~ 2 hours at 30°C.

Expenditure

Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity.

Average Expenditure : 1,65-2,75 kg/m²
Expenditure in first layer : ~ 800 gr/m²
Expenditure in second layer : ~ 800 gr/m²
Expenditure in third layer : ~ 800 gr/m²

Rate of Mixing

Mix A is poured into the bucket of Molumer PL02. For more comfortable application in warm weather, maximum 3 kg of water is added to mixture. Mix A 6 kg

Mixing

- Mix the product with a mechanic mixer with low cycle (maximum 500 cycle/minutes) in its packing.
- Mixing is continued until a homogeneous mixture is obtained.
- Period of mix is ~5 minutes.

Manner of Application

- Dusted, burnt, mossy concrete and screed surfaces are primed with Molumer PL03 or PL302. After drying fiberglass net is spread then Molumer PL02 is applied.
- Molumer Geo Pah Band is spread firstly on bitumen, asphalt or membrane surfaces then Molumer PL05N is applied. After drying Molumer PL02 is coated.
- Ceramic surfaces are coated with Molumer Geo Pah Band first and then primed with Molumer PL305. After drying, Molumer PL02 is applied.

Equipment to be used and cleaning of equipment

- Only insulation brush is used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Molumer PL02 can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** White colour,getting uncolored. During application, it takes gray color of Mix A.
- **pH:** 8 ± 1
- **Density:** 1.42 ± 0.05 kg/l
- **Viscosity(6/20):** 17000±4000 cps
- **Packaging:** 18 kg bucket + 6 kg bag Mix A
- **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 3 pieces in maximum. In case that it cannot be used the whole product, lid of bucket should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

MOLÜMER PL02	
CE 16	
İZOTAŞ İZOLASYON TUR. SAN VE TİC. LTD. ŞTİ İnönü Mah. Fatih Sultan Cad. No:40 Ayrancılar Torbalı/ İZMİR	
TS EN 14891: June 2012 Resistant to Chloride Water, Cement Based, Applied in Liquid Form, Impermedable Product. CMP	
Initial tensile adhesion strength:	1,2 N/mm²
Tensile adhesion strength after contact with water:	0,5 N/mm²
Tensile adhesion strength after Thermal Aging	1,2 N/mm²
Tensile adhesion strength after lime water contact	0,6 N/mm²
Tensile adhesion strength after freeze-thaw cycles	0,8 N/mm²
Waterproof	10,3 gram no penetration
Crack Bridging Ability	0,757 mm

Full Elastic, UV Resistant, Cement Based Waterproofing, 2 Component

PL207

Definition

Molumer PL207 is cement based copolymer, full elastic waterproofing material with high adhesion ability.

Areas of Use

- Wet areas such as toilets, bathrooms
- Under-ceramic reinforced concrete and screed terraces
- Concrete and screed terraces which has little static mobility
- Ornamental pools
- Hidden roofs and rain gutters
- Horizontal and vertical surfaces
- On inclined roofs such as OSB, wood, porch, arbor, concrete and vault before applying IZOLESER Roof Coating Material.

Specifications

- Full elastic.
- Protects concrete from carbonation.
- Adherence ability to surfaces is high.
- Provides condensation of water vapor to control diffusion.

Reference Standard

-TS EN 14891

Cement based waterproofing liquid membrane with crack bridging ability at normal temperature, Type: CM

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of surface

- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- The surface should be primed or leveled to obtain a firm surface.
- Repair-Protection Mortar should be used for repairing and filling gaps and cavities on surface.
- Molumer PL207 should not be applied on wet surface. It's possible to apply on humid surface.

Conditions of application

- Newly applied material should be protected from frost and rain.
- Molumer Pl207 should be applied after waiting at least 21 days on new screed but application can be done after 7-10 days depending on the weather temperature on Molumer Concrete Admixture added screed.

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.

Waiting period between layers: ~ 8 hours at 10°C.
~ 4 hours at 20°C.
~ 2 hours at 30°C.

Expenditure

Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity.

Average Expenditure : 2,00 -3,50 kg/m²
Expenditure in first layer : ~ 1000 gr/m²
Expenditure in second layer : ~ 1000 gr/m²
Expenditure in third layer : ~ 1000 gr/m²

Before Izoleser Roof Coating, expenditure is ~1000 gr/m² - 1500 gr/m² to protect and paste carrier on inclined roofs such as OSB, wood, porch, arbor, concrete and vault.

Rate of Mixing

After Molumer PL207 is poured into a bucket, Mix A is added and mixed. For more comfortable application in warm weather, maximum 2 kg of water is added to mixture. Mix A (10 kg + 10 kg)

Mixing

- Mix the product with a mechanic mixer with low cycle (maximum 500 cycle/minutes) in its packing.
- Mixing is continued until a homogeneous mixture is obtained.
- Period of mix is ~5 minutes.

Manner of Application

- Concrete and screed surfaces are primed with Molumer PL302. After drying fiberglass net is spread then Molumer PL207 is applied.
- Molumer Geo Pah Band is spread on bitumen firstly, asphalt or membrane surfaces then Molumer PL05N is applied. After drying Molumer PL207 is coated.
- Seramic surfaces are coated with Molumer Geo Pah Band and primed with Molumer PL305. After drying Molumer PL207 is applied.
- Before Izoleser Roof Coating, Molumer PL207 is applied to protect and paste carrier on inclined roofs such as OSB, wood, porch, arbor, concrete and vault.

Equipment to be used and cleaning of equipment

- Only insulation brush is used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Molumer PL207 can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** White colour,getting uncolored. During application, it takes gray color of Mix A.
- **pH:** 8.0±1.0
- **Density:** 1.03±0.05 kg/l
- **Packaging:** 10 kg jerry can + (10 kg + 10 kg) Mix A
- **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 3 pieces in maximum. In case that it cannot be used the whole product, lid of plastic should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

Semi Elastic, Cement Based Waterproofing, 2 Component

PL206

Definition

Molumer PL206 is cement based copolymer and semi elastic waterproofing material with high adhesion ability.

Areas of Use

- Wet areas such as toilets, bathrooms
- Under-ceramic reinforced concrete and screed terraces
- Concrete and screed terraces which has little static mobility
- Ornamental pools
- Hidden roofs and rain gutters
- Horizontal and vertical surfaces.

Specifications

- Semi elastic.
- Protects concrete from carbonation.
- Adherence ability to surfaces is high.
- Provides condensation of water vapor to control diffusion.

Reference Standard

-TS EN 14891

Cement based waterproofing liquid membrane with crack bridging ability at normal temperature, Type: CM

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of surface

- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- The surface should be primed or leveled to obtain a firm surface.
- Repair-Protection Mortar should be used for repairing and filling gaps and cavities on surface.
- Molumer PL206 should not be applied on wet surface. It's possible to apply on humid surface.

Conditions of application

- Newly applied material should be protected from frost and rain.
- Molumer PL206 should be applied after waiting at least 21 days on new screed but application can be done after 7-10 days depending on the weather temperature on Molumer Concrete Admixture added screed.

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.

Waiting period between layers: ~ 8 hours at 10°C.
~ 4 hours at 20°C.
~ 2 hours at 30°C.

Expenditure

Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity.

Average Expenditure : 1,65 -2,75 kg/m²
Expenditure in first layer : ~ 800 gr/m²
Expenditure in second layer : ~ 800 gr/m²
Expenditure in third layer : ~ 900 gr/m²

Rate of Mixing

After Molumer PL206 is poured into a bucket, Mix A is added and mixed. For more comfortable application in warm weather, maximum 1 kg of water is added to mixture. Mix A (8,5 kg + 8,5 kg)

Mixing

- Mix the product with a mechanic mixer with low cycle (maximum 500 cycle/minutes) in its packing.
- Mixing is continued until a homogeneous mixture is obtained.
- Period of mix is ~5 minutes.

Manner of Application

- Concrete and screed surfaces are primed with Molumer PL302. After drying fiberglass net is spread then Molumer PL206 is applied.
- Molumer Geo Pah Band is spread firstly on bitumen, asphalt or membrane surfaces then Molumer PL05N is applied. After drying, Molumer PL206 is coated.
- Ceramic surfaces are coated with Molumer Geo Pah Band and primed with Molumer PL305. After drying Molumer PL206 is applied.
- Before Izoleser Roof Coating, Molumer PL206 is applied to protect and paste carrier on inclined roofs such as OSB, wood, porch, arbor, concrete and vault.

Equipment to be used and cleaning of equipment

- Only insulation brush is used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Molumer PL206 can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** White colour,getting uncolored.During application, it takes gray color of Mix A.
- **pH:** 8.0±1.0
- **Density:** 1.03±0.05 kg/l
- **Packaging:** 8 kg jerry can + (8,5 kg + 8,5 kg) Mix A
- **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 3 pieces in maximum. In case that it cannot be used the whole product, lid of plastic should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

High UV Resistant, Elastomeric Resin Based Waterproofing

PL05N

Definition
Polyester acrylic resin based elastomeric copolymer UV resistant liquid waterproofing material with high viscosity.

Areas of Use
- Bottoms of chimney, parapet and pipe
- Sheet metal, trapeze, lag screw heads, atermite, PVC, wood surfaces and junction locations
- Asphalt surfaces
- Reinforced concrete and screed terraces
- Hidden roofs and rain gutters
- Mosque domes.

Specifications
- The layer formed after drying has expansion ability.
- High resistant against UV-lights.
- Extra elastic.
- It has adhesion and diffusion ability.
- Walkable on.
- Ready to apply directly.

Reference Standard
-TS EN 14891
Reaction resin based waterproofing liquid membrane with crack bridging ability at normal temperature, Type: RM

APPLICATION PROCEDURE AND INSTRUCTIONS
Preparation of surface
- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- The surface should be primed or leveled to obtain a firm surface.
- Repair-Protection Mortar should be used for repairing and filling gaps and cavities on surface.
- Molumer PL05N should not be applied on wet and humid surface and places where may be puddle.

Conditions of application
- Newly applied material should be protected from frost and rain.
- Molumer PL05N should be applied after waiting at least 21 days on new screed but application can be done after 7-10 days depending on the weather temperature on Molumer Concrete Admixture added screed.

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.
Waiting period between layers: ~ 12 hours at 10°C.
~ 6 hours at 20°C.
~ 4 hours at 30°C.

Expenditure
Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity.

Average Expenditure : 1,65 -2,75 kg/m²
Expenditure in first layer : ~ 700 gr/m²
Expenditure in second layer : ~ 700 gr/m²
Expenditure in third layer : ~ 600 gr/m²

Mixing

- Mix the product with a mechanic mixer with low cycle (maximum 500 cycle/minutes) in its packing.
- Period of mix is ~5 minutes.

Manner of Application

- Dusted, burnt, mossy concrete and screed surfaces are primed with Molumer PL03 or PL302. After drying fiberglass net is spread then Molumer PL05N is applied.
- Molumer Geo Pah Band is spread on ceramic and water-based old insulated surfaces then Molumer PL305 is applied. After drying Molumer PL05N is coated.
- PVC and wood surfaces are primed with Molumer Pl305.Properly sized Molumer Geo Pah Band is spread on, then Molumer PL05N is applied.

Equipment to be used and cleaning of equipment

- Only insulation brush is used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Molumer PL05N can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** Original is light cream although can be produced as desired color.Preferably can be colored by waterbased color pigments.
- **pH:** 9 ± 1
- **Density:** 1.20 ± 0.05 kg/l
- **Viscosity:** 12000±4000 cps
- **Packaging:** 20 kg bucket
- **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 2 pieces in maximum. In case that it cannot be used the whole product, lid of bucket should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

MOLÜMER PL05N	
CE 16	
İZOTAŞ İZOLASYON TUR. SAN VE TİC. LTD. ŞTİ İnönü Mah. Fatih Sultan Cad. No:40 Ayrancılar Torbalı/ İZMİR	
TS EN 14891: June 2012 Normal Reaction Resine Applied in Liquid Form, Impermedable Product, RM	
Initial tensile adhesion strength:	0,7 N/mm²
Tensile adhesion strength after contact with water:	0,6 N/mm²
Tensile adhesion strength after Thermal Aging	0,7 N/mm²
Tensile adhesion strength after lime water contact	0,7 N/mm²
Tensile adhesion strength after freeze-thaw cycles	0,8 N/mm²
Waterproof	4,0 gram no penetration
Crack Bridging Ability	0,79 mm

UV Filtered Elastomeric Waterproofing

PL05N-01

Definition

Polyester acrylic based, copolymer, highly viscous, UV filtered elastomeric liquid plastic waterproofing material.

Areas of Use

- Chimney, parapets and pipe on the floor
- Sheet metals, trapeze, trifonl screw heads, eternit sheets, PVC, on wooden surfaces and joints
- On asphalt surfaces
- On concrete and screed terraces
- Hidden roofs and gutters
- Used in mosque domes.

Specifications

- The layer formed after drying has high expansion ability.
- Resistant to UV rays.
- It is elastic.
- Has the ability to adhere and diffuse to the surface.
- Walkable on.
- Ready to apply directly.

Reference Standard

-TS EN 14891

The reaction is a resin-based liquid impermeability product with crack bridging capability at normal temperature TYPE: RM

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of surface

- Before starting the application, all dirt, dust, oil, weak and volatile particles in the surface, shields, old applications which are raised and cement grout should be cleaned from the residues.
- Depending on the cleanliness required on the surface, tools such as vacuum cleaner, brush, spatula can be used.
- The surface should be leveled to obtain a primed or solid surface.
- Surface repairs, filling of cavities and pits should be done with Repair-Protection Filler.
- Do not apply to surfaces that are wet, damp and watery.

Conditions of application

- Protect the newly applied material from freezing and rain.
- Molumer PL05N-01 should be applied after waiting at least 21 days on new screed but application can be done after 7-10 days depending on the weather temperature on Molumer Concrete Admixture added screed.

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.

Waiting period between layers: ~ 12 hours at 10°C.
~ 6 hours at 20°C.
~ 4 hours at 30°C.

Expenditure

The consumption varies according to the surface condition, application thickness, loss and voids.

Average Expenditure : 1,65 -2,75 kg/m²
Expenditure in first layer : ~ 700 gr/m²
Expenditure in second layer : ~ 700 gr/m²
Expenditure in third layer : ~ 600 gr/m²

Mixing

- It can be mixed with a mechanical mixer at low speed (max 500 rpm) on its package.
- Mixing time is at least 2 minutes.

Manner of Application

- Dusted, burnt, mossy concrete and screed surfaces are primed with Molumer PL03 or PL302. After drying fiberglass net is spread then Molumer PL05N-01 is applied.
- Molumer Geo Pah is spread on ceramic and water-based old insulated surfaces then Molumer PL305 is applied. After drying Molumer PL05N-01 is coated.
- PVC and wood surfaces are primed with Molumer Pl305. Properly sized Molumer Geo Pah Band is spread on, then Molumer PL05N is applied.

Equipment to be used and cleaning of equipment

- Only insulation brush is used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Molumer PL05N-01 can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** Natural color can be produced in desired pastel colors with being light cream. It can be colored with the desired color, preferably with water-based color pigments.
- **pH:** 9 ± 1
- **Density:** 1.30 ± 0.05 kg/l
- **Viscosity:** 12000 ± 4000 cps
- **Packaging:** 20 kg plastic bucket
- **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 2 pieces in maximum. In case that it cannot be used the whole product, lid of bucket should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

Transparent Elastomeric Waterproofing

PL05N-02

Definition

Polyester acrylic based, copolymer, highly viscous, transparent elastomeric liquid plastic waterproofing material.

Areas of Use

- Bottoms of chimney, parapet and pipe
- Sheet metal, trapeze, lag screw heads, atermite, PVC, wood surfaces and junction locations
- Asphalt surfaces
- Reinforced concrete and screed terraces
- Hidden roofs and rain gutters
- Mosque domes.

Specifications

- The layer formed after drying has high expansion ability.
- It is elastic.
- It has adhesion and diffusion ability.
- Walkable on.
- Ready to apply directly.

Reference Standard

-TS EN 14891

The reaction is a resin-based liquid impermeability product with crack bridging capability at normal temperature

TYPE: RM

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of surface

- Before starting the application, all dirt, dust, oil, weak and volatile particles in the surface, shields, old applications which are raised, cement grout should be cleaned from the residues.
- Depending on the cleanliness required on the surface, tools such as vacuum cleaner, brush, spatula can be used.
- The surface should be leveled to obtain a primed or solid surface.
- Surface repairs, filling of cavities and pits should be done with Repair-Protection Mortar.
- Do not apply to surfaces that are wet, damp and watery.

Conditions of application

- Protect the newly applied material from freezing and rain.
- Molumer PL05N-02 should be applied after waiting at least 21 days on new screed but application can be done after 7-10 days depending on the weather temperature on Molumer Concrete Admixture added screed.

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.

Waiting period between layers: ~ 12 hours at 10°C.
~ 6 hours at 20°C.
~ 4 hours at 30°C.

Expenditure

The consumption varies according to the surface condition, application thickness, loss and voids.

Average Expenditure

Expenditure in first layer : 1,65 -2,75 kg/m²
Expenditure in second layer : ~ 700 gr/m²
Expenditure in third layer : ~ 700 gr/m²
: ~ 600 gr/m²

Mixing

- It can be mixed with a mechanical mixer at low speed (max 500 rpm) on its package.
- Mixing time is at least 2 minutes.

Manner of Application

- Dusted, burnt, mossy concrete and screed surfaces are primed with Molumer PL03 or PL302. After drying fiberglass net is spread then Molumer PL05N-02 is applied.
- Molumer Geo Pah Band is spread on ceramic and water-based old insulated surfaces then Molumer PL305 is applied. After drying Molumer PL05N-02 is coated.
- PVC and wood surfaces are primed with Molumer Pl305.Properly sized Molumer Geo Pah Band is spread on, then Molumer PL05N-02 is applied.

Equipment to be used and cleaning of equipment

- Only insulation brush is used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Molumer PL05N-02 can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** White color, getting uncolored
- **pH:** 9 ± 1
- **Density:** 1.03 ± 0.05 kg/l
- **Viscosity:** 30000 ± 10000 cps
- **Packaging:** 17,5 kg plastic bucket
- **Storing and lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 2 pieces on top, protecting it from direct sunlight and frost. If the complete product is not available, the bucket cover should be closed tightly and the product should not be allowed to breathe for further use. Storage life is 12 months from production date

Exterior Waterproofing With Granules

PL07

Definition

Acrylic based, elastomeric copolymer liquid waterproofing material with high viscosity.

Areas of Use

- Exterior walls of all buildings
- Appropriately prepared plaster, concrete and cement surfaces
- Old painted surfaces

Specifications

- Can be painted on with water-based paint.
- Full elastic.
- Provides decorative apperance thanks to granules.
- Covers plaster mistakes with the help of its pattern and thickness.
- The layer formed after drying has expansion ability.
- High resistant againts UV-lights.
- Protects buildings againts rain, snow and sun.
- Human and environment friendly because of being water-based.
- It has adhesion and diffusion ability.
- Ready to apply directly.

Reference Standard

-TS EN 14891

Normal dispersion based waterproofing liquid membrane with crack bridging ability at normal temperature, Type: DM

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of surface

- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as brush, spatula etc. can be used according to necessary cleaning for surface.
- The surface should be primed or leveled to obtain a firm surface.
- Repair-Protection Mortar should be used for repairing and filling gaps and cavities on surface.
- Molumer PL07 should not be applied on wet and humid surface.

Conditions of application

- Newly applied material should be protected from frost and rain.
- Molumer PL07 should be applied after waiting at least 21 days on new screed but application can be done after 7-10 days depending on the weather temperature on Molumer Concrete Admixture added screed.

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.

Waiting period between layers: ~ 15 hours at 10°C.
~ 5 hours at 20°C.
~ 3 hours at 30°C.

Expenditure

Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity.

Average Expenditure : 1,65 -2,75 kg/m²
Expenditure in first layer : ~ 900 gr/m²
Expenditure in second layer : ~ 800 gr/m²
Expenditure in third layer : ~ 800 gr/m²

Mixing

- Mix the product with a mechanic mixer with low cycle (maximum 500 cycle/minutes) in its packing.
- Period of mix is at least 3 minutes.

Manner of Application

- Dusted, burnt, mossy concrete and painted surfaces are primed with Molumer PL302. After drying fiberglass net is spread then Molumer PL07 is applied.

Equipment to be used and cleaning of equipment

- Insulation brush or coral roller are used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Molumer PL07 can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** Original colors are white, red and green although can be produced as desired color by the means of waterbased color pigments.
- **pH:** 8 ± 1
- **Density:** 1.48 ± 0.05 kg/l
- **Viscosity:** 25000±4000 cps
- **Packaging:** 20 kg bucket
- **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 3 pieces in maximum. In case that it cannot be used the whole product, lid of bucket should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

Bodrum's White-Blue Waterproofing

PL09

Definition
One component, polyester acrylic resin based liquid waterproofing material.

Areas of Use
- Windowless flat facades of buildings
- Reinforced concrete and screed terraces
- Hidden roofs and rain gutters
- Asphalt and water based insulated surfaces
- Under-ceramic concrete surfaces such as toilets, bathrooms, balconies

Specifications
- Adhesive on several surfaces.
- High resistant against UV-lights.
- Elastic.
- Provides diffusion control by condensing water vapor.
- Walkable on.
- Can be applied on horizontal and vertical surfaces.
- Ready to apply directly.

Reference Standard
-TS EN 14891
Reaction resin based waterproofing liquid membrane with crack bridging ability at normal temperature, Type: RM

APPLICATION PROCEDURE AND INSTRUCTIONS
Preparation of surface
- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- The surface should be primed or leveled to obtain a firm surface.
- Repair-Protection Mortar should be used for repairing and filling gaps and cavities on surface.
- Molumer PL09 should not be applied on wet surface. It is possible to apply on humid surface.

Conditions of application
- Newly applied material should be protected from frost and rain.
- Molumer PL09 should be applied after waiting at least 21 days on new screed but application can be done after 7-10 days depending on the weather temperature on Molumer Concrete Admixture added screed.

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.
Waiting period between layers: ~ 8 hours at 10°C.
~ 4 hours at 20°C.
~ 2 hours at 30°C.

Expenditure
Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity.
Average Expenditure : 1,65 -2,75 kg/m²
Expenditure in first layer : ~ 600 gr/m²
Expenditure in second layer : ~ 600 gr/m²
Expenditure in third layer : ~ 600 gr/m²

Mixing

- Mix the product with a mechanic mixer with low cycle (maximum 500 cycle/minutes) in its packing.
- Period of mix is at least 3 minutes.

Manner of Application

- Dusted, burnt, mossy concrete and screed surfaces are primed with Molumer PL03 or PL302. After drying fiberglass net is spread then Molumer PL09 is applied.
- Properly sized Molumer Geo Pah Band is spread on ceramic and water-based old insulated surfaces then Molumer PL305 is applied. After drying Molumer PL09 is coated.

Equipment to be used and cleaning of equipment

- Only insulation brush is used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Molumer PL09 can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** White - blue
- **pH:** 9 ± 1
- **Density:** 1.42 ± 0.05 kg/l
- **Viscosity:** 16000±4000 cps
- **Packaging:** 18 kg bucket
- **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 2 pieces in maximum. In case that it cannot be used the whole product, lid of bucket should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

Bitumen Based Waterproofing, 2 Component

PL08

Definition

Bitumen and acrylic based elastomeric liquid waterproofing material.

Areas of Use

- Construction foundation walls
- Construction foundation piles
- Lean concretes
- Retaining walls
- Asphalt and water-based insulated surfaces
- Reinforced concrete and screed terraces
- Rain gutters
- To fill in non-static capillary cracks on reinforces concrete buildings

Specifications

- Perfectly adhesive on several surfaces
- The layer formed after drying has expansion ability.
- Resistance against UV-lights.
- Elastic.
- Provides diffusion control by condensing water vapor.
- Walkable.
- Can be applied on horizontal and vertical surfaces.
- Ready to apply directly.

Reference Standard

-TS EN 14891

Normal dispersion based waterproofing liquid membrane with crack bridding ability at normal temperature, Type: DM

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of surface

- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- The surface should be primed or leveled to obtain a firm surface.
- Repair-Protection Mortar should be used for repairing and filling gaps and cavities on surface.
- Molumer PL08 should not be applied on wet surface. It's possible to apply on humid surface.

Conditions of application

- Newly applied material should be protected from frost and rain.
- Molumer PL08 should be applied after waiting at least 21 days on new screed but application can be done after 7-10 days depending on the weather temperature on Molumer Concrete Admixture added screed.

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.

Waiting period between layers: ~ 8 hours at 10°C.
~ 4 hours at 20°C.
~ 2 hours at 30°C.

Expenditure

Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity.

Average Expenditure : 1,65 -2,75 kg/m²
Expenditure in first layer : ~ 700 gr/m²
Expenditure in second layer : ~ 700 gr/m²
Expenditure in third layer : ~ 600 gr/m²

Rate of Mixing

Undermentioned Mix A ratio is poured into bucket to make ready. For more comfortable application in warm weather, maximum 2 kg of water is added to mixture.

18 kg Molumer PL08 + 2 kg Mix A

Mixing

- Mix the product with a mechanic mixer with low cycle (maximum 500 cycle/minutes) in its packing.
- Mixing is continued until a homogeneous mixture is obtained.
- Period of mix is at least 3 minutes.

Manner of Application

- Dusted, burnt, mossy concrete and screed surfaces are primed with Molumer PL03 or PL302. After drying fiberglass net is spread then Molumer PL08 is applied.
- Molumer Geo Pah Band is spread on bitumen, asphalt, membrane surfaces then Molumer PL05N is applied. After drying Molumer PL08 is coated.
- Ceramic and water based old insulated surfaces are coated with Molumer Geo Pah Band and primed with Molumer PL305. After drying Molumer PL08 is applied.

Equipment to be used and cleaning of equipment

- Only insulation brush is used for application.
- Used tools and equipment should be cleaned by means of water and thinner. MOLUMER PL08 can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** Claret red
- **pH:** 8 ± 1
- **Density:** 1.40 ± 0.05 kg/l
- **Viscosity:** 14000 ± 4000 cps
- **Packaging:** 18 kg bucket + 2 kg bag Mix A
- **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 3 pieces in maximum. In case that it cannot be used the whole product, lid of bucket should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

MOLÜMER PL08	
CE 17	
İZOTAŞ İZOLASYON TUR. SAN VE TİC. LTD. ŞTİ İnönü Mah. Fatih Sultan Cad. No:40 Ayrancılar Torbalı/ İZMİR	
TS EN 14891: June 2012 Normal Dispertion Based Applied in Liquid Form, Impermedable Product. Type: DM	
Initial tensile adhesion strength:	0,6 N/mm²
Tensile adhesion strength after contact with water:	0,7 N/mm²
Tensile adhesion strength after Thermal Aging	0,5 N/mm²
Tensile adhesion strength after lime water contact	0,5 N/mm²
Tensile adhesion strength after freeze-thaw cycles	0,6 N/mm²
Waterproof	2,2 gram no penetration
Crack Bridging Ability	1,66 mm

Colored Film Coat

İZOPRATİK

Definition
Bitumen added, water based elastomeric liquid waterproofing material.

Areas of Use
- Surfaces with old filincot and asphalt membrane
- Reinforced concrete and screed terraces
- Rain gutters
- Windowless flat facades of buildings
- Surfaces that will remain under the ground, not exposed to excess pressure water; on foundation walls, foundation piles, lean concrete and retaining walls.

Specifications
- The layer formed after drying has expansion ability.
- Elastic.
- Provides diffusion control by condensing water vapor.
- Can be applied on horizontal and vertical surfaces.
- Ready to apply directly.

APPLICATION PROCEDURE AND INSTRUCTIONS
Preparation of surface
- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- The surface should be primed or leveled to obtain a firm surface.
- Repair-Protection Mortar should be used for repairing and filling gaps and cavities on surface.
- IZOPRATIK should not be applied on wet surface. It's possible to apply on humid surface.

Conditions of application
- Newly applied material should be protected from frost and rain.
- IZOPRATIK should be applied after waiting at least 21 days on new screed but application can be done after 7-10 days depending on the weather temperature on Molumer Concrete Admixture added screed.

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.

Waiting period between layers: ~ 8 hours at 10°C.
~ 4 hours at 20°C.
~ 2 hours at 30°C.

Expenditure
Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity.

Average Expenditure : 1,65 -2,75 kg/m²
Expenditure in first layer : ~ 600 gr/m²
Expenditure in second layer : ~ 600 gr/m²
Expenditure in third layer : ~ 600 gr/m²

Mixing

- Mix the product with a mechanic mixer with low cycle (maximum 500 cycle/minutes) in its packing.
- Period of mix is at least 3 minutes.

Manner of Application

- 5 lt of water is added into 18 kg of IZOPRATIK for primer layer. Other layers are applied by direct application.

Equipment to be used and cleaning of equipment

- Only insulation brush is used for application.
- Used tools and equipment should be cleaned by means of water and thinner. IZOPRATIK can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** Claret red
- **pH:** 9 ± 1
- **Density:** 1.41 ± 0.05 kg/l
- **Packaging:** 18 kg bucket
- **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 3 pieces in maximum. In case that it cannot be used the whole product, lid of bucket should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

Crystalline waterproofing liner, 2 Component

PL03

Definition

Elastomeric, cement-acrylic based copolymer, concrete waterproofing primer which is impregnated to capillary surfaces.

Areas of Use

- Injection applications
- Elevator shafts
- Reinforced concrete pipes and tunnels
- Concrete and iron drinking water tanks
- Musty trapeze surfaces
- Olive well depots
- Hot and cool thermal pools
- Sewage and waste water treatment facilities
- Againts water pressure, negative (inside) applications in basement floors and walls
- Before Izoleser Roof Coating on reinforced concrete
- Groundworks and walls exposed to seawater.

Specifications

- The layer formed after drying has expansion ability.
- It has adhesion and diffusion ability.
- Provides diffusion control by condensing water vapor.
- Suitable to contact with drinking water.
- Antibacterial.
- Can be applied on horizontal and vertical surfaces.

Reference Standard

-TS EN 14891

Cement based liquid applied, at normal temperature crack bridging ability of waterproofing, Type: CM

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of surface

- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- The surface should be primed or leveled to obtain a firm surface.
- Repair-Protection Mortar should be used for repairing and filling gaps and cavities on surface.
- Molumer PL03 should not be applied on wet surface. It's possible to apply on humid surface.

Conditions of application

- Newly applied material should be protected from frost and rain.
- Molumer PL03 should be applied after waiting at least 21 days on new screed but application can be done after 7-10 days depending on the weather temperature on Molumer Concrete Admixture added screed.

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.

Waiting period between layers: ~ 8 hours at 10°C.
~ 4 hours at 20°C.
~ 2 hours at 30°C.

Expenditure

Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity.

Average Expenditure : 400 - 600 gr/m²
Expenditure for rusty trapeze surfaces : 100 - 150 gr/m²
Expenditure for Injection applications of brick : 750 - 1000 gr/m²

Rate of Mixing

Undermentioned Mix A ratio is poured into bucket and made ready.

For 20 kg Molumer PL03 Mix A Ratio is 6 kg

Mixing

- Mix the product with a mechanic mixer with low cycle (maximum 500 cycle/minutes) in its packing.
- Mixing is continued until a homogeneous mixture is obtained.
- Period of mix is ~5 minutes.
- Mixture should be stirred to prevent collapse of Mix A with insulation brush at every dipping in bucket.

Manner of Application

- Molumer PL03 is applied to relevant area in a single layer.

Equipment to be used and cleaning of equipment

- Only whitewash brush is used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Molumer PL03 can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** White color gets colorless by the time.During application, it takes gray color of Mix A.
- **pH:** 8 ± 1
- **Density:** 1.02 ± 0.02 kg/l
- **Packaging:** 20 kg plastic can + 6 kg bag Mix A
- **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 3 pieces in maximum. In case that it cannot be used the whole product, lid of plastic should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

MOLÜMER PL03	
CE 16	
İZOTAŞ İZOLASYON TUR. SAN VE TİC. LTD. ŞTİ İnönü Mah. Fatih Sultan Cad. No:40 Ayrancılar Torbalı/ İZMİR	
TS EN 14891: June 2012 Cement Based, Applied in Liquid Form, Impermedable Product. CM	
Initial tensile adhesion strength:	0,8 N/mm²
Tensile adhesion strength after contact with water:	0,7 N/mm²
Tensile adhesion strength after Thermal Aging	0,7 N/mm²
Tensile adhesion strength after lime water contact	0,7 N/mm2
Tensile adhesion strength after freeze-thaw cycles	0,8 N/mm²
Waterproof	5 gram, no penetration
Crack Bridging Ability	0,96 mm

Primer for Concrete Waterproofing,
2 Components

PL302

Definition
Elastomeric, cement-acrylic based copolymer, waterproofing primer which is impregnated to surfaces.

Areas of Use
- Exterior walls
- To consolidate crumbly, dusted walls, concrete and plaster surfaces
- Helicopter concrete surfaces
- Parking garages and lots
- Reinforced concrete and screed terraces
- Hidden roofs and gutters
- Before Izoleser Roof Coating on reinforced concrete
- Rigid waterproofing of foundation walls.

Specifications
- The layer formed after drying has expansion ability.
- It has adhesion and diffusion ability.
- Provides diffusion control by condensing water vapour.
- Protects concrete from carbonation.
- Can be applied on horizontal and vertical surfaces.

Reference Standard
-TS EN 14891
Cement based waterproofing liquid membrane with crack bridging ability at normal temperature, Type: CM

APPLICATION PROCEDURE AND INSTRUCTIONS
Preparation of surface
- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- The surface should be primed or leveled to obtain a firm surface.
- Repair-Protection Mortar should be used for repairing and filling gaps and cavities on surface.
- Molumer PL302 should not be applied on wet surface. It's possible to apply on humid surface.

Conditions of application
- Newly applied material should be protected from frost and rain.
- Molumer PL302 should be applied after waiting at least 21 days on new screed but application can be done after 7-10 days depending on the weather temperature on Molumer Concrete Admixture added screed.

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.
Waiting period between layers: ~ 15 hours at 10°C.
~ 5 hours at 20°C.
~ 3 hours at 30°C.

Expenditure
Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity.
Average Expenditure: 800 - 1000 gr/m²

Rate of Mixing
Undermentioned Mix A ratio is poured into bucket and made ready. Plenty of mixture is applied to surface for being impregnated.
For 20 kg Molumer PL302 Mix A Ratio is 6 kg

Mixing

- Mix the product with a mechanic mixer with low cycle (maximum 500 cycle/minutes) in its packing.
- Mixing is continued until a homogeneous mixture is obtained.
- Period of mix is ~5 minutes.
- Mixture should be stirred to prevent collapse of Mix A with insulation brush at every dipping in bucket.

Equipment to be used and cleaning of equipment

- Only whitewash brush is used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Molumer PL302 can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** White color getting uncolored. During application, It takes gray color of Mix A.
- **pH:** 8 ± 1
- **Density:** 1.02 ± 0.02 kg/l
- **Packaging:** 20 kg jerry can + 6 kg bag Mix A
- **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 3 pieces in maximum. In case that it cannot be used the whole product, lid of plastic should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

Primer for Ceramic Waterproofing

PL305

Definition
Polyester acrylic resin based elastomeric, copolymer waterproofing primer.

Areas of Use
- Ceramic surfaces

Specifications
- The layer formed after drying has expansion ability.
- It has adhesion and diffusion ability.
- Provides diffusion control by condensing water vapour.

Reference Standard
-TS EN 14891
Reaction resin based waterproofing liquid membrane with crack bridging ability at normal temperature, Type: RM

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of surface
- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- The surface should be primed or leveled to obtain a firm surface.
- Repair-Protection Mortar should be used for repairing and filling gaps and cavities on surface.
- Molumer PL305 should not be applied on wet and humid surface.

Conditions of application
- Newly applied material should be protected from frost and rain.
- Molumer PL302 should be applied after waiting at least 21 days on new screed but application can be done after 7-10 days depending on the weather temperature on Molumer Concrete Admixture added screed.

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.
Waiting period between layers: ~ 12 hours at 10°C.
~ 6 hours at 20°C.
~ 3 hours at 30°C.

Expenditure
Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity.
Average Expenditure: 600 - 800 gr/m²

Mixing
- Mix the product with a mechanic mixer with low cycle (maximum 500 cycle/minutes) in its packing.
- Period of mix is ~ 2 minutes.

Manner of Application
- Molumer PL305 is applied directly in a single layer.

Equipment to be used and cleaning of equipment
- Only whitewash brush is used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Molumer PL305 can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** Light blue
- **pH:** 8 ± 1
- **Density:** 1.03 ± 0.02 kg/l
- **Packaging:** 20 kg plastic can
- **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 2 pieces in maximum. In case that it cannot be used the whole product, lid of plastic should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

Adherence Reinforcing Primer

PL306

Definition
It is an acrylic dispersion-based adherence primer used to increase adhesion in ceramic on ceramic applications before ceramic adhesive mortar.

Areas of Use
- All kinds of smooth and clear surfaces such as ceramic
- Both indoors and outdoors.

Specifications
- Shows high adhesion property.
- Provides adhesive mortar work better.
- Helps waterproofing.
- Can be applied on horizontal and vertical surfaces.

APPLICATION PROCEDURE AND INSTRUCTIONS
Preparation of surface
- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- Molumer PL306 should not be applied on wet surface.

Conditions of application
- Newly applied material should be protected from frost and rain.Molumer PL306 should be applied after waiting at least 21 days on new screed but application can be done after 7-10 days depending on the weather temperature on Molumer Concrete Admixture added screed

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.
Waiting period between layers: ~ 8 hours at 10°C.
~ 4 hours at 20°C.
~ 2 hours at 30°C.

Expenditure
Expenditure changes depending on the surface condition, losses such as shedding and cavity.
Average Expenditure: 150 - 200 gr/m²

Mixing
- Mix the product with a mechanic mixer with low cycle (maximum 500 cycle/minutes) in its packing.
- Period of mix is ~5 minutes.

Manner of Application
- After mixing process is completed, Molumer PL306 is applied to entire surface with brush or roller.
- For applications by machine, maximum 1 liter of water can be added to Molumer PL306, if necessary. After mixing process is completed, the entire surface is applied by machine.
- Ceramic adhesive mortar should be applied after Molumer PL306 has completely dried and rested.

Equipment to be used and cleaning of equipment
- Only insulation brush and roller are used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Molumer PL306 can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY
During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION
- **Color:** Cream • **pH:** 9 ± 1 • **Density:** 1.75 ± 0.05 kg/l • **Viscosity:** 30000 ± 10000 cps • **Packaging:** 10 and 20 kg plastic bucket
- **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 3 pieces in maximum. In case that it cannot be used the whole product, lid of plastic should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 6 months as of producing date.

Primer for Exposed Concrete

BK201

Definition
It is a water-based and resin based, adherence additive which is reinforced with a polymer and shows high adhesion property, used to increase adhesion before plastering.

Areas of Use
- Smooth concrete and exposed surfaces
- All kinds of plaster, wall and ceiling surfaces, including plaster and cement.

Specifications
- Provides optimum absorption of stucco-plaster mixing water to application surface.
- Increases workability of mortar and process.

APPLICATION PROCEDURE AND INSTRUCTIONS
Preparation of surface
- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- Molumer BK201 should not be applied on wet surface.

Conditions of application
- Newly applied material should be protected from frost and rain. It should be applied after waiting for at least 21 days in new screed. However, it can be applied after 7- 10 days depending on the weather temperature in the screeds laid with Molumer Concrete Admixtures.

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.

Waiting period between layers: ~ 8 hours at 10°C.
~ 4 hours at 20°C.
~ 2 hours at 30°C..

Expenditure
Expenditure changes depending on the surface condition, losses such as shedding and cavity.

Average Expenditure: 150 - 200 gr/m²

Mixing
- Mix the product with a mechanic mixer with low cycle (maximum 500 cycle/minutes) in its packing.
- Period of mix is ~ 5 minutes.

Manner of Application
- For manual applications, 1,5 liter of water can be added to 15 kg of Molumer BK201. After mixing process is completed, the entire surface is applied with brush or roller.
- For applications by machine, 2-2,5 liter of water can be added to 15 kg of Molumer BK201. After mixing process is completed, the entire surface is applied by machine.

Equipment to be used and cleaning of equipment
- Only insulation brush and roller are used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Molumer BK201 can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY
During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION
- **Color:** Pastel red • **pH:** 9 ± 1 • **Density:** 1.35 ± 0.05 kg/l • **Viscosity:** 15000 ± 5000 cps • **Packaging:** 15 - 12 and 3,5 kg plastic bucket
- **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 3 pieces in maximum. In case that it cannot be used the whole product, lid of plastic should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 6 months as of producing date.

Transparent Waterproofing

DEKORA

Definition
Elastomeric, acrylic based copolymer and capillary impregnable concentrated liquid waterproofing material which forms transparent film after drying.

Areas of Use
- For protection and external insulation of historical buildings and archeological areas
- Decorative and natural stone surfaces
- Marble, granite, brick and water based painted surfaces
- Mosaic and mosaic tile surfaces
- Travertine and aerated concrete surfaces.

Specifications
- The layer formed after drying has expansion ability.
- It has adhesion and diffusion ability.
- Provides diffusion control by condensing water vapour.
- Can be safely contacted with potable water.
- Antifouling and washable.
- Antibacterial.
- Can be applied on horizontal and vertical surfaces.

Reference Standard
-TS EN 14891
Normal dispersion based waterproofing liquid membrane with crack bridging ability at normal temperature, Type: DM

APPLICATION PROCEDURE AND INSTRUCTIONS
Preparation of surface
- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- The surface should be primed or leveled to obtain a firm surface.
- Repair-Protection Mortar should be used for repairing and filling gaps and cavities on surface.
- DEKORA should not be applied on wet and humid surface.
- Application should not be done on surface where high negative (internal) water vapor and pressure has.

Conditions of application
- Newly applied material should be protected from frost and rain.
- DEKORA should be applied after waiting at least 21 days on new screed but application can be done after 7-10 days depending on the weather temperature on Molumer Concrete Admixture added screed.

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.
Waiting period between layers: ~ 8 hours at 10°C.
~ 4 hours at 20°C.
~ 2 hours at 30°C.

Expenditure
Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity.
Average Expenditure for absorbent surfaces is ~600 - 1000 gr/m²

Rate of Mixing

• Under mentioned clean water ratio is poured into bucket to make ready.

	Water Ratio	DEKORA Ratio
To obtain matte surface	40 kg	20 kg
To obtain shiny surface	10 kg	20 kg

• In exterior applications, it is preferable to use the material directly without dilution.

Mixing

• Mix the product with a mechanic mixer with low cycle (maximum 500 cycle/minutes) in its packing.
• Period of mix is at least 2 minutes.

Manner of Application

• DEKORA is applied in layers until surface is saturated.Can also be applied by spraying.

Equipment to be used and cleaning of equipment

• Whitewash brush or spraying machine can be used for application.
• Used tools and equipment should be cleaned by means of water and thinner. DEKORA can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

• **Color:** White color getting uncolored during the process
• **pH:** 8 ± 1
• **Density:** 1.04 ± 0.02 kg/lt
• **Packaging:** 20 kg jerry can
• **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 3 pieces in maximum. In case that it cannot be used the whole product, lid of bucket should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

Concrete Dusting Preventive Surface Coating

FORMULA

Definition
Lithium silicate based impermeable coating material which prevents dust emission of concrete and makes concrete become radiance.

Areas of Use
- Dusty concrete and screed surfaces
- Any kind of cement based surface
- In ground floors of establishments such as parking lots, textile ateliers, plastic, stationary and food etc.
- On surfaces coated old tile and mosaic.

Specifications
- Protects surfaces of concrete and lengthens service lifetime of surface.
- Resists against traffic of humans and vehicles.
- Provides that surface can be cleaned easily.
- Increases solidity of concrete by impregnating into concrete.
- Gains appearance to concrete, which is better elasticity.
- Has ultra violet (UV) resistance.
- Layer constituting after drying has ability to expand.

Reference Standard
-TS EN 14891
Normal dispersion based waterproofing liquid membrane with crack bridging ability at normal temperature, Type: DM

APPLICATION PROCEDURE AND INSTRUCTIONS
Preparation of surface
- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- In concretes finished newly, it should be cleaned oil of mold, waste of breaker joint from all surfaces.
- After polishing work finishes in new applied concretes, it can be done application when concrete becomes suitable to walk on it.
- It can be used tools such as sweeper, brush, spatula etc. according to cleaning necessary for surface.
- It should be used Repair-Protection Mortar for repairing and filling gaps and cavities on surface.
- It should not be applied on wet and humid surface.

Conditions of application
Newly applied material should be protected from frost and rain.

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.
Waiting period between layers: ~ 4 days at 10°C.
~ 2 days at 20°C.
~ 1 day at 30°C.

Expenditure
Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity. It can be applied in two or three layers according to absorbency.

Total Expenditure: 100 - 200 gr/m²

Mixing

- Mix the product with a mechanic mixer with low cycle (maximum 500 cycle/minutes) in its packing.
- Period of mixing is ~ 5 minutes.

Manner of Application

- Surfaces such as concrete and screed are primed with Molumer PL302.
- Molumer Formula should be spread on the surface equally with the equipment.
- It is necessary that there is not any thin point and dry area on Molumer Formula impregnated on the surface. In case that dry area remains on the surface, it should be added Molumer Formula to the surface, spread it everywhere equally, prevented ponding on the ground.
- These areas must be observed since the pores where the edges, bottom edges and corners are located will dry quickly.
- After the last layer is applied depending on weather conditions, area can be opened for human traffic at least 3 days later and vehicle traffic at least 7 days later.
- During 30-40 minute application periods continuously in applications of vertical surfaces, you can apply it downward in direction of working, by starting from upward.

Equipment to be used and cleaning of equipment

- In practice, airless, high volume spraying tools, rolls, soft-tipped brushes are used. And also by pouring onto the surface it can be apply.
- Used tools and equipment should be cleaned by means of water and thinner. It is hard to cleaned Molumer Formula from the surface because of its characteristics of penetrating into concrete.

RECOMMENDATIONS OF SECURITY

- Since Molumer Formula makes the surface temporarily slippery, it should be taking security measures by means of signs like “Attention!" "Slippery Floor” in order to prevent falls.
- Cleaning is very important for a successful floor program. Routine maintenance and cleaning must be provided to achieve the expected results.
- In order to clean the surface of Molumer Formula, use detergent between neuter-high pH 1 degrees, not included hydroxide and sulfate. Cleaners with acid or abrasive compounds cause an appearance creating dull deformation on the surface.
- Concrete will resist against pollution and penetration of humidity of a lot of liquids.
- It should be made mixing material in open air and by using mask. In the applications made in closed areas it is necessary to provide circulation of air. During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician immediately. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** White liquid getting uncolored
- **pH:** 11.0 ± 1.0
- **Density:** 1.05 ± 0.02 kg/l
- **Packaging:** 20 kg jerry can
- **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 3 pieces in maximum. In case that it cannot be used the whole product, lid of plastic should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

Water Based Peelable Coating

S-01

Definition

Acrylic copolymer based, water-based, low-adherence protective coating that can easily be removed from the applied surface.

Areas of Use

- In the construction sector: glass, aluminum, PVC, marble, bath, bathtub, parquet, furniture and so on.
- Protection of decorative stones; ceramic, marble, granite, tile stones and so on.
- On all kinds of metal surfaces
- Temporary floor covering in areas requiring mechanical and chemical resistance
- In the maritime sector; protection of deck, wood and metal surfaces
- Protection of paint cabinets by metal and glass surfaces

Specifications

- Due to its chemical structure, it easily separates from the surface and leaves no stain on the applied surface
- Resistant to UV rays.
- High resistance against chemicals and corrosion inhibition.
- Protect the applied surface from impact, sparks and scratches.
- The applied surface ensures that the surface is not damaged during transport or during a different operation.
- Since it is thixotropic, it does not flow, sag
- Not harmful to environment and health. Waste generated after the process can be disposed of in the household waste section.
- Because it is water-based, it can be easily applied to any surface, it is not flammable.

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of surface

- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications, and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- Do not apply to wet and damp surfaces.

Conditions of application

Surface and ambient temperature minimum + 5°C and maximum +35°C.
Waiting period between layers: ~ 4 hours at 10°C.
~ 2 hours at 20°C.
~ 1 hour at 30°C.

Expenditure

The consumption varies according to the surface condition, application thickness, loss and voids.

For glass, PVC and metal surfaces; 100-150 micron thickness
First Layer ~ 100-150 gr / m^2
Second Layer ~ 100-150 gr / m^2

For marble, granite, parquet, deck, wood etc surfaces; 150-250 micron thickness
First Layer ~ 150-250 gr / m^2
Second Layer ~ 150-250 gr / m^2

Mixing

•It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
•Mixing time is ~ 2 minutes.

Manner of Application

• Peelable coating can be applied directly to the surface to be applied.

Equipment to be used and cleaning of equipment

• Applied by roller or brush.
• Tools and equipment used should be cleaned with water. The peelable coating can only be mechanically cleaned from the surface after drying and curing.

RECOMMENDATIONS OF SECURITY

Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children can not reach. Please contact Molumer for the Material Safety Data Sheet (MSDS) of the products.

TECHNICAL INFORMATION

• **Color:** Transparent - Blue
• **pH:** 8.0 ± 1.0
• **Density:** 1,05 ± 0,05 kg / lt
• **Viscosity:** 6,000 ± 2,000 cps
• **Packaging Shape:** 15 kg plastic bucket
• **Storing and lifetime:** In a cool and dry environment, it should be stored and stacked as maximum 2 pieces in direct sunlight and frost protection. If the complete product is not available, the bucket cover should be closed tightly and the product should not be allowed to air up to next usage. Storage life is 12 months from production date.

Geo Pah Bandı

Geo Pah Band

Definition
It is a textile product which is produced in white color by means of needling and heat treatment of pure polypropylene or pure polyester based fibres which is much thinner in millimetres and is cut in special size without braided reinforced glass.

Areas of Use
- Closure of capillary cracks with static mobility in reinforced concrete structures
- In all chimney bottom corners and tin plate or sheet metal creek joints
- Building foundations - curtain concrete and lean concrete - curtain concrete junctions
- Aluminum Sheet, Steel Sheet, Zinc Sheet and Trapeze Sheet etc. sheet metal junction
- Isoleser OSB junction and eaves turn
- In the application details of Izoleser Roof, Izoleser is combined with chimney, wall, sheet metal or with each other
- All the reinforced concrete and screed terraces
- In the hidden roofs and creek gutters
- In concrete and iron drinking water reservoirs
- Around the concrete junction of water drain pipes
- Parapet bottom corners in olive well depots
- In hot and cold thermal pools,
- In the elevator gaps,
- In sewer and wastewater treatment plants
- In the joints of reinforced concrete pipes and tunnels
- Foundations and walls exposed to sea water
- Used in garden terraces to provide resistance to plant roots impermeability.

Specifications
- Has the ability to expand.
- High UV resistance.
- Provides diffusion control by condensing water vapor
- It is suitable for contact with drinking water.
- Can be applied on horizontal and vertical surfaces

APPLICATION PROCEDURE AND INSTRUCTIONS
Preparation of surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications, and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- The surface should be leveled to obtain a primed or solid surface.
- Surface repairs, filling of cavities and pits should be done with repair-protection mortar.
- Do not apply to wet and damp surfaces.

Manner of Application
- It is the bearer of MOLUMER PL05N and Molumer PL305 products.
- Surfaces such as dusty, burnt, moss-like concrete and screed are primed with Molumer PL03 or PL302. The first coat of Molumer products to be used is applied. Molumer product laid on the surface without drying and then Geo Pah Band spread on with the help of a brush. It is glued cleanly without leaving space and pot. Then, Molumer products are applied to coats.

Equipment to be Used and Cleaning of Equipment
- It is used only with a lining fitch and isolation brush.
- The tools and equipment used in the area should be cleaned with water and thinner. Molumer products can only be mechanically cleaned after drying and hardening

RECOMMENDATIONS OF SECURITY
During the application, work clothes, protective gloves, and goggles appropriate to the occupational health and safety rules should be used. If swallowed, seek medical advice immediately. It should be stored at places where children can not reach. Please contact Molumer for the Material Safety Data Sheet (MSDS) of the products.

TECHNICAL INFORMATION

Color: White

Size Width: 5 cm - 10 cm - 15 cm - 20 cm - 30 cm - 40 cm - 50 cm - 100 cm

Length: 100 meters

Packaging Shape: Stretch wrapped roll

Thickness: 0.45mm (EDENA30.5-02)

Tensile Strength MD: (N / 50mm 105) ISO9073-3: 1989

Tensile Strength CD: (N / 50mm 95) ISO9073-3: 1989

Elongation Strength MD: (40%) ISO9073-3: 1989

Elongation Strength CD: (65%) ISO9073-3: 1989

Storing Shape and Lifetime: In a cool and dry environment, it should be stacked and stored as a maximum of 10 pieces on top of each other while protecting them from direct sunlight and frost. Smoking is not allowed in the storage area. If the complete product is not used, it must be protected against external influences for the next use. Storage life is 10 years from production date.

MIX Q

MIX Q

Definition
It is a powder mixture of special aggregate and quartz additives. Used in conjunction with acrylic based copolymer emulsions.

Areas of Use
- It intensifies water vapor and provides diffusion control.
- It is suitable for contact with drinking water current.
- It can be applied on horizontal and vertical surfaces.

Application Procedure and Instructions
Expenditure
- Molumer liquid products to be used with Molumer Mix Q are mixed into the package in one go

Mixing
- Mixed polymer emulsion can be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Continue mixing until the mixture become without lumpy
- Mixing time is ~5 minutes.

Manner of Application
- Molumer Liquid products to be used with Mix Q are applied to the package in one go

Equipment to be Used and Cleaning of Equipment
- Tools and equipment used should be cleaned with water.
- After the Molumer products dry and cure, they can only be mechanically cleaned from the surface.

RECOMMENDATIONS OF SECURITY
Material mixture should be made in open area and with mask. Air circulation should be provided in closed area applications. Work clothes, protective gloves and goggles should be used during the application, in accordance with the Occupational Health and Safety Rules. In case of eyeball and skin splash immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Molumer for the Material Safety Data Sheet (MSDS) of the products.

TECHNICAL INFORMATION
Color: White powder
Chemical Structure: Special aggregate and Quartz
Packaging : 6 kg Bag
Storing and Lifetime: It should be stored in a cool and dry environment, protected from direct sunlight and freezing. Unpacked product cannot be reused. Storage life is 12 months from production date.

MOLÜMER

SU YALITIM UYGULAMALARI

FOR RISKY LEAN CONCRETE OF BUILDING FOUNDATIONS WHICH HAVE EXPOSED TO TEMPORARY WATER PRESSURE

1 • The area of lean concrete, which is a correction concrete on the terrain, must be 15-30 cm larger than the slab on grade. After laying the concrete must be done rotary trowel and glazing to the surface.
• After the water insulation details on the lean concrete, must be layed one more concrete layer over them, since to protect the waterproofing material on the lean concrete form the effects of mold nails and pins. But this time the protection concrete which was layed over, must be at the same area with the curtain concrete and mold should be determined by borders. By this way, 15-30 cm larger lean concrete edges will be seen with the waterproofing material coated on it.
• After the slab on grade process finished, the joints of water insulation between lean concrete and curtain concrete will be sticked together in order to complete the bundling operation.
• Net is laid on the ground. The joints are placed on each other and applied with Molumer **PL302**.

2 • After the primer layer dried, then apply Molumer **PL08** on the whole surface.

3 Before the last layer material dried, it should be layed on 400 g/m² felt in order to protect the insulation. The joints should be sticked together with Molumer **PL08** so must be placed on each other.

FOR HIGH RISK LEAN CONCRETE OF BUILDING FOUNDATIONS WHICH HAVE EXPOSED TO ALKALI AND CONTINUOUS WATER PRESSURE

½ The area of lean concrete, which is a correction concrete on the terrain, must be 15-30 cm larger than the slab on grade. After laying the concrete must be done rotary trowel and glazing to the surface.
• After the water insulation details on the lean concrete, must be layed one more concrete layer over them, since to protect the waterproofing material on the lean concrete form the effects of mold nails and pins. But this time the protection concrete which was layed over, must be at the same area with the curtain concrete and mold should be determined by borders. By this way, 15-30 cm larger lean concrete edges will be seen with the waterproofing material coated on it.
• After the slab on grade process finished, the joints of water insulation between lean concrete and curtain concrete will be sticked together in order to complete the bundling operation.
• Net is laid on the ground. The joints are placed on each other and applied with Molumer **PL03**.

•After the primer layer dried, then apply Molumer **PL02** on the whole surface.

3 • Before the last layer material dried, it should be layed on 400 g/m² felt in order to protect the insulation. The joints should be sticked together with Molumer **PL02** so must be placed on each other.

FOR RISKY CURTAIN CONCRETE OF BUILDING FOUNDATIONS WHICH HAVE EXPOSED TO WATER PRESSURE


1


2


3


4

1 • In order to stick together the waterproofing details which are applied on lean concrete and curtain concrete;
The felt on the lean concrete should be cut. Then, Molumer Geo Pah Band and **PL05N** are applied on to the joint locations of lean concrete and curtain concrete surfaces to complete the bundling operation.
• Rod gaps- holes and segregation faults should be closed by means of repair and protection mortar and applied **PL302**.
• A special detail application done with Geo Pah Band and Molumer **PL05N** on to the connection locations of the lean concrete and curtain concrete and also to the rod gaps - holes.
• If there is a dilatation on the curtain concrete, should be must a dilatation application detail.

2 • After the surface dried, Molumer **PL08** is applied to all surfaces.

3 • Before the last layer material dried, it should be layed on 400 g/m² felt in order to protect the insulation. The joints should be sticked together with Molumer **PL08** so must be placed on each other.

4 • After the felt layer, either can be applied 400g/m² drainage plate on the entire surface or can be laid brick wall and covered with soil, according to the desired preference.

FOR HIGH RISK CURTAIN CONCRETE OF BUILDING FOUNDATIONS WHICH HAVE EXPOSED TO ALKALI AND CONTINUOUS WATER PRESSURE


1


2


3


4

1 • In order to stick together the waterproofing details which are applied on lean concrete and curtain concrete;
The felt on the lean concrete should be cut. Then, Molumer Geo Pah Band and **PL05N** are applied on to the joint locations of lean concrete and curtain concrete surfaces to complete the bundling operation.
• Rod gaps- holes and segregation faults should be closed by means of repair and protection mortar and applied **PL03.**
•A special detail application done with Geo Pah Band and Molumer **PL05N** on to the connection locations of the lean concrete and curtain concrete and also to the rod gaps - holes.
• If there is a dilatation on the curtain concrete, should be must a dilatation application detail.

2 • After the surface dried, Molumer **PL02** is applied to all surfaces.

3 • Before the last layer material dried, it should be layed on 400 g/m² felt in order to protect the insulation. The joints should be sticked together with Molumer **PL02** so must be placed on each other.

4 • After the felt layer, either can be applied 400g/m² drainage plate on the entire surface or can be laid brick wall and covered with soil, according to the desired preference.

BASEMENT INTERIOR (NEGATIVE) APPLICATION DETAIL

1 • If there are surfaces such like; Ceramic tile, plaster, stucco etc. will be removed to reach a solid surface.

2 • Water leaks are prevented by Molumer **BK03**.

3 • Net is laid on the ground. The joints are placed on each other and applied with Molumer **PL03**.

4 • After the primer coat is dry, Molumer **PL02** is applied to the entire surface
• We recommend pah application to bottom edges.
• If there is pressurized water, it is absolutely adherence added plastering is required.

BRICK WALL INJECTION APPLICATION DETAIL

1 • The first row of the bricks at the bottom of the wall is drilled by means of a drill by 10 cm horizontal distance to each other.

2 • With a help of a vacuum cleaner the dust in the holes and on the surface is cleaned.

3 • Molumer **PL03** is injected in to the opened holes on the surface by means of injection bottle.
• After the injection process, the holes are filled with repair and protection mortar.
• If there is spalling on the surface, remove it up to reach the solid surface then apply Molumer **PL03**.
• After the primer layer dried, then apply Molumer **PL02** on the entire surface. After drying, apply adherence additive plastering.

APPLICATION DETAIL BEFORE CERAMIC TILES


1


2


3


4

1 • Molumer **PL302** is applied to entire surface.

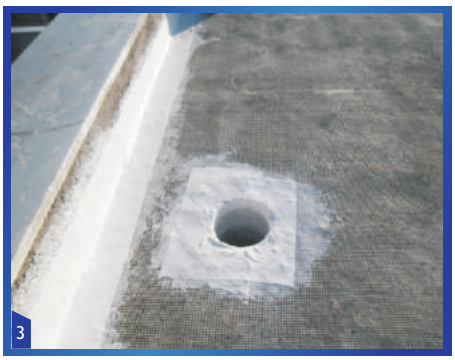
2 • Cold joints on the surface, concrete cracks, floor drain-siphon and pipe bottoms are special detailed applied by means of Molumer Geo pah band and Molumer **PL05N.**

3/4 • After drying, Molumer **PL09, PL207** or **PL206** is applied to the surface.

APPLICATION DETAIL FOR MULTI-RISKY CONCRETE AND SCREED SURFACE TERRACES


1


2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4

1 • If there is a possibility of being a bituminous membrane or heat insulation material under the concrete screed, then it is necessary to put ventilation chimneys for each 15-25 m^2 area

2 • Net is laid on the ground. The joints are placed on each other and applied with Molumer **PL03.**

3 • Bottoms of chimney, concrete cracks and bottom edge joins are specially detailed applied by means of Molumer Geo pah band and Molumer **PL05N.**

4 • After drying, Molumer **PL02** is applied the entire surface.

APPLICATION DETAIL FOR RISKY CONCRETE SURFACE TERRACES


1


2


3


4

1 • If there is a possibility of being a bituminous membrane or heat insulation material under the concrete screed, then it is necessary to put ventilation chimneys for each 15-25 m² area

2 • Net is laid on the ground. The joints are placed on each other and applied with Molumer **PL302**

3 • Bottoms of chimney, concrete cracks and bottom edge joins are specially detailed applied by means of Molumer Geo pah band and Molumer **PL05N.**

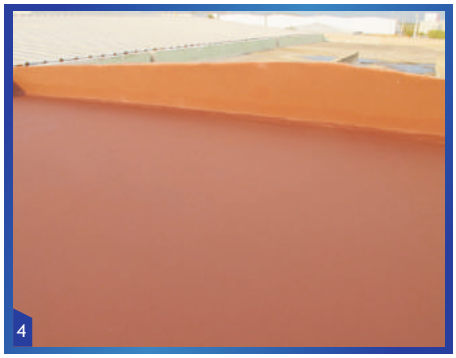
4 • After drying, Molumer **PL207** is applied the entire surface.

BITUME ADDITIVE WATER INSULATION FOR RISKY CONCRETE SURFACE TERRACES


1


2


3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1 • If there is a possibility of being a bituminous membrane or heat insulation material under the concrete screed, then it is necessary to put ventilation chimneys for each 15-25 m² area

2 • Net is laid on the ground. The joints are placed on each other and applied with Molumer **PL302**
• Bottoms of chimney, concrete cracks and bottom edge joins are specially detailed applied by means of Molumer Geo pah band and Molumer **PL05N.**

3/4 • After drying, Molumer **PL08** is applied the entire surface.

APPLICATION DETAIL FOR CERAMIC-MARBLE-TILE SURFACE TERRACES

1 • If there is a possibility of being a bituminous membrane or heat insulation material under the concrete screed, then it is necessary to put ventilation chimneys for each 15-25 m^2 area

2 • Felt is laid on the ground. The joints are placed on each other and applied with Molumer **PL305**

3 • Bottoms of chimney, concrete cracks and bottom edge joins are specially detailed applied by means of Molumer Geo pah band and Molumer **PL05N.**

4 • After drying, Molumer **PL02, PL207** or **PL08** is applied the entire surface.

APPLICATION DETAIL FOR ASPHALT – MEMBRANE SURFACES TERRACES

1 • Bottoms of chimney, concrete cracks and bottom edge joins are specially detailed applied by means of Molumer Geo pah band and Molumer **PL05N.**

2 • Molumer **PL05N** is applied the entire surface in the beginning. The joints are placed on each other with the proper sized felt is laid on the joint locations then Molumer **PL05N** is applied once again.

3 • After drying Molumer **PL02** is applied the entire surface.

BITUME ADDITIVE WATER INSULATION FOR ASPHALT –MEMBRANE SURFACE TERRACES


1


2


3

1 • Bottoms of chimney, concrete cracks and bottom edge joins are specially detailed applied by means of Molumer Geo pah band and Molumer **PL05N.**

2 • Molumer **PL05N** is applied the entire surface in the beginning. The joints are placed on each other with the proper sized felt is laid on the joint locations then Molumer **PL05N** is applied once again.

3 • After drying Molumer **PL08** is applied the entire surface.

APPLICATION DETAIL FOR NATUREL STONE SURFACES


1


2

½ • Molumer **Dekora** is applied to the cleaned surface.

APPLICATION DETAIL FOR PAINTED – UNPAINTED SURFACES


1


2

1 • Spalled and peeled paints cleaned from the surface. Molumer **PL302** is applied to the entire surface.

2 • After drying Molumer **PL07** is applied. According to preference the surface can Paintable.

APPLICATION DETAIL FOR EPOXY SURFACE TERRACES


1


2


3

1 • If there is a possibility of being a bituminous membrane or heat insulation material under the concrete screed, then it is necessary to put ventilation chimneys for each 15-25 m^2 area, bottoms of chimney, concrete cracks and bottom edge joins are specially detailed applied by means of Molumer Geo pah band and Molumer **PL05N.**

2 • Felt is laid on the ground. The joints are placed on each other and applied with Molumer **PL305**

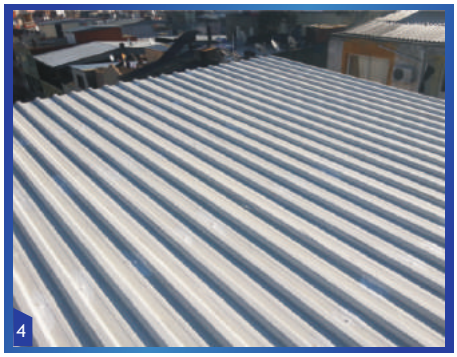
3 • After drying Molumer **PL02, PL05N** or **PL08** is aplied to the entire surface.

APPLICATION DETAIL FOR TRAPEZE SHEET ROOF


1


2


3


4

1 • If the trapezoid sheet is moldy or rusted, it is primed with Molumer **PL03**.

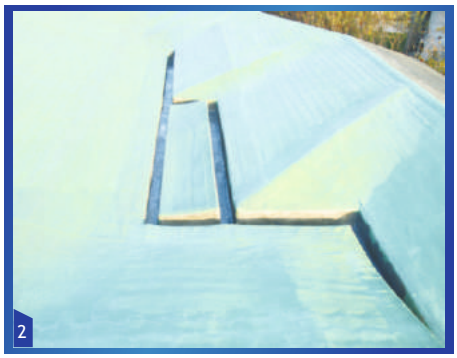
2 • Molumer **PL05N** is applied on the entire surface, just after that Molumer Geo Pah band is applied on to the joints with the proper sized which are placed on each other and sticked with Molumer **PL05N**

3 • For nails and bolts heads, Geo Pah Band is cut in 10 cm x 10cm and same bonding process is applied.

4 • After drying process, Molumer **PL05N** is applied on to Molumer Geo Pah band surfaces which were sticked before, at least 2 layers.
• In order to protect the entire surface against to the corrosion, it can be applied Molumer **603** and for heat insulation can be applied Molumer **Thermal Roof Coating Paint.**

APPLICATION DETAIL FOR BITUMINOUS ROOF COVERINGS


1


2

½ • Molumer **PL05N** is applied on the entire surface, just after that Molumer Geo Pah band is applied on to the joints with the proper sized which are placed on each other and sticked with Molumer **PL05N**

3 • After drying, Molumer **Roof Covering Paint** is applied on to the surface to get decorative and color view.


3

APPLICATION DETAIL FOR BLIND FACADE SURFACES


1

1 • Molumer **PL09** is applied on to the entire surface.

APPLICATION DETAIL FOR THE BIG VOLUME CONCRETE SURFACED POOL


1


2


3


4

1 • Net is spread on the ground. The joints are placed on each other and applied with Molumer **PL03**

2 • Cold joints on the surface, concrete cracks, corners and pipe bottoms are special detailed applied by means of Molumer Geo pah band and Molumer **PL05N.**
Pah is made by means of Protection and Repair Mortar on to the bottom edge joins.

3 • Molumer **PL02** is applied on to the entire surface.

4 • For the decorative viewed pools, blue color Molumer **Pool Paint** can be applied.

APPLICATION DETAIL FOR THE SMALL VOLUME CONCRETE SURFACED POOLS


1


2


3

½ Net is spread on the ground. The joints are placed on each other and applied with Molumer **PL302**
• Cold joints on the surface, concrete cracks, corners and pipe bottoms are special detailed applied by means of Molumer Geo pah band and Molumer **PL05N**.
Pah is made by means of Protection and Repair Mortar on to the bottom edge joins.

3 • Molumer **PL207** is applied on to the entire surface.

4 • For the decorative viewed pools, blue color Molumer **Pool Paint** can be applied.

APPLICATION DETAIL FOR THE CERAMIC SURFACED POOLS

1 • Properly sized Molumer Geo Pah Band is spread on the surface. The joints are placed on each other and applied with Molumer **PL305**
• Cold joints on the surface, concrete cracks, corners and pipe bottoms are special detailed applied by means of Molumer Geo pah band and Molumer **PL05N**

2 • Molumer **PL02** is applied on to the entire surface.

¾ • For the decorative viewed pools, blue color Molumer **Pool Paint** can be applied.

APPLICATION DETAIL FOR THE SOIL SURFACED SMALL POOLS

½ • 400gr/m2 woolly felt is spread on to the surface. The join places are over laped on each other and applied with Molumer **PL302**. Molumer Geo pah band and Molumer **PL05N** are placed and spread on to the joins of felt and applied detailed.

3 • After drying Molumer **PL02** is aplied to the entire surface.

APPLICATION DETAIL FOR THE BIG VOLUME CONCRETE SURFACED WATER RESERVOIR

1 • Net is spread on to the surface. The join places are over laped on each other and applied with Molumer **PL03**. Cold joints on the surface, concrete cracks, corners and pipe bottoms are special detailed applied by means of Molumer Geo pah band and Molumer **PL05N**. According to the risk may be added dilatation wick on to the bottom-edges.

2 • Pah application is formed to bottom edges by means of repair-protection mortar.

3 • Molumer **PL02** is aplied to the entire surface. Especially in the closed areas it will be useful to make air circulation by a fan and to accelerate the drying by an electric heater. For the decorative viewed pools, blue color Molumer **Pool Paint** can be applied.

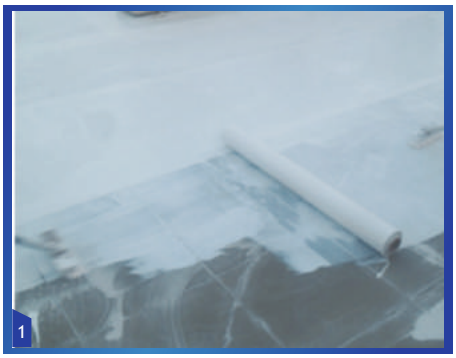
APPLICATION DETAIL FOR THE SMALL VOLUME WATER RESERVOIR

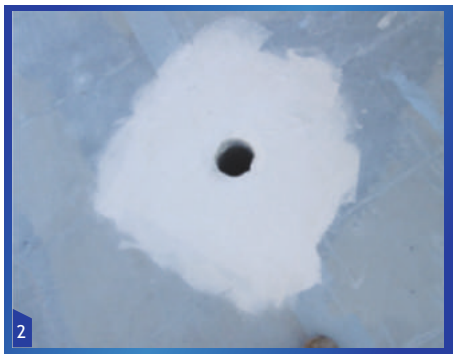
1/2 • Net is spread on to the surface. The join places are over laped on each other and applied with Molumer **PL302**.
• Cold joints on the surface, concrete cracks, corners and pipe bottoms are special detailed applied by means of Molumer Geo pah band and Molumer **PL05N**.
• Pah application is formed to bottom edges by means of repair-protection mortar.

3 • Molumer **PL207** is aplied to the entire surface.

4 • Especially in the closed areas it will be useful to make air circulation by a fan and to accelerate the drying by an electric heater. For the decorative viewed pools, blue color Molumer **Pool Paint** can be applied.

APPLICATION DETAIL FOR THE CERAMIC SURFACE WATER RESERVOIR





1 • Properly sized Molumer Geo Pah Band is spread on the surface. The joints are placed on each other and applied with Molumer **PL305**.

2 • Cold joints on the surface, concrete cracks, corners and pipe bottoms are special detailed applied by means of Molumer Geo pah band and Molumer **PL05N**.

3 • Molumer **PL02** is aplied to the entire surface.

4 • Especially in the closed areas it will be useful to make air circulation by a fan and to accelerate the drying by an electric heater.
• For the decorative viewed pools, blue color Molumer **Pool Paint** can be applied.

APPLICATION DETAIL FOR THE IRON SURFACE WATER RESERVOIR

½ • Net is spread on to the surface. The join places are over laped on each other and applied with Molumer **PL03**. Corners of the surface and the pipe bottoms are applied specially detailed Molumer Geo Pah Band and Molumer **PL05N**.

3 • Molumer **PL02** is aplied to the entire surface.

4 • Especially in the closed areas it will be useful to make air circulation by a fan and to accelerate the drying by an electric heater.
• For the decorative viewed pools, blue color Molumer **Pool Paint** can be applied.
• Possible corrosion on the surface will be prevented by the means of this application.

APPLICATION DETAIL FOR THE OLIVE WELLS

1 • Net is spread on to the surface. The join places are over laped on each other and applied with Molumer **PL03.**

2 • Cold joints on the surface, concrete cracks, corners and pipe bottoms are special detailed applied by means of Molumer Geo pah band and Molumer **PL05N**. Pah application is formed to bottom edges by means of repair-protection mortar.

3 • Molumer **PL02** is aplied to the entire surface. By adding Molumer **Mix Q** in to the last layer application, finish the process.

APPLICATION DETAIL FOR THE THERMAL & GEOTHERMAL WATER RESERVOIR

1 • Net is spread on to the surface. The join places are over laped on each other and applied with Molumer **PL302**.
• Cold joints on the surface, concrete cracks, corners and pipe bottoms are special detailed applied by means of Molumer Geo pah band and Molumer **PL05N**. Pah application is formed to bottom edges by means of repair-protection mortar.
• Molumer **PL02** is aplied to the entire surface.
• By adding Molumer **Mix Q** in to the last layer application, finish the process.

APPLICATION DETAIL FOR ANTI-DUST CONCRETE SURFACE


1


2


3


4

1/2 Molumer **PL302** is applied to the entire surface.

3/4 After the surface dried, Molumer **FORMULA** is applied.

INSTALLATION OF VENTILATION CHIMNEY


1


2


3

1 • The existing ceramics are broken at the designated places so that a ventilating chimney at 15 - 20m² will be installed.
• In order to reach the concrete surface, the materials under the ceramic such as bitumen coatings, XPS, EPS and Styrofoam should be removed from the installation location of ventilation chimney.

2 • Ventilation chimney is placed in to the opened location.

3 • After it is placed, it is filled with mortar so that it will align with the old surface.

APPLICATION DETAIL FOR DILATITION INSULATION

1 • Dilatation is cleaned from the screed, EPS, Styrofoam at least 5-10 cm deepness. Molumer **PL302** is applied to the entire surface.

2 • Proper sized Molumer Geo Pah band is put in to the dilatation, like the shape of “omega” letter, then Molumer **PL05N** is applied on it.

3 • After the **PL05N** is dried, the dilatation wick is put in.

4 • After then, proper sized Molumer Geo Pah Band is spread on and Molumer **PL05N** is applied for covering dilatation

5 • After drying, Molumer **PL02** is applied.

MOLÜMER

CONCRETE ADDITIVES

Cement Setting Period Accelerating Additives

BK01

Definition

This is a chemical additive used to accelerate cement setting process by reacting with cement, sand and water thanks to its metallic chemical structure compatible with the inorganic chemical characteristics of cement.

Areas of Use

- Foundations, basement floors and elevator shafts
- Treatment plants, water tanks
- Dams
- Final coat aprons
- Olive and pickle wells which need to be resistant against salt and acid
- Concrete structure where high level and early setting resistance is desirable
- Where it is desirable to remove concrete moulds as soon as possible.
- Concrete of swimming and thermal pools
- Tunnels and channels
- Concrete manholes (entries of sewerage systems),
- Concrete roads which are required to be opened to traffic in a shorter time.

Specifications

- Physically and chemically affects the concrete.
- Provides early setting and fast hardening with its catalysing effect.
- No incompatibility observed with concretes designed with super plasticisers.
- Affects the freezing speed of concrete mixing water, especially in winter months.
- Can be used with concretes with plasticiser and super plasticiser additives.
- Allows ~10% reduction in mixing water for unadulterated concrete.
- Affects slump value of unadulterated concrete by 20-40 mm.
- Significantly reducing the capillarity and provides waterproofing by its crystallised structure.
- If the fresh concrete is more fluid than necessary, it provides viscosity and plasticity and prevents water separation
- Condenses water vapor and has diffusion ability.
- Suitable to contact with drinking water.
- Antibacterial.

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of surface

- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, sherbet of cement etc. on surface before starting application.
- It should be applied concrete to dust-free and wet surface.
- The most negative environment for pouring of concrete is sweltering, dry and windy weather conditions. In newly poured fresh concrete, it is appeared loss of excess water. As a result of this event, it is appeared loss of sedimentation, accelerating of hardening, air gaps and cracks of plastic shrinkage on surface. This affects resistance of concrete negatively. If the air temperature more than 30°C while pouring concrete, makes necessary to take actions for concrete.

Conditions of application

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.
It should be applied water cure in temperatures more than 35°C.

Expenditure

- Generally it is recommended to add this product to concrete at the rate between 1,5 % (one and a half percent) and 0.5 % (half percent) of cement amount.
- It is suitable to add this product to concrete which is reinforced with the plasticizers at the rate between 0,5 % (half percent) and 1 % (half percent) of cement amount.
- As the dosage increases, the setting period becomes shorter and the water resistance value increases.

Mixing Ratio

Class of Fresh Concrete	BK01 for 5 m³	BK01 for 7 m³	BK01 for 10 m³	BK01 for 12 m³
C8/10	Least 2 kg Most 6 kg	Least 2,80 kg Most 8,40 kg	Least 4 kg Most 12 kg	Least 4,80 kg Most 14,40 kg
C12/15	Least 3 kg Most 9 kg	Least 4,20 kg Most 12,60 kg	Least 6 kg Most 18 kg	Least 7,20 kg Most 21,60 kg
C16/20	Least 4 kg Most 12 kg	Least 5,60 kg Most 16,80 kg	Least 8 kg Most 24 kg	Least 9,60 kg Most 28,80 kg
C20/25	Least 5 kg Most 15 kg	Least 7 kg Most 21,00 kg	Least 10 kg Most 30 kg	Least 12 kg Most 36 kg
C25/30	Least 6,25 kg Most 18,75 kg	Least 8,75 kg Most 26,25 kg	Least 12,50 kg Most 37,50 kg	Least 15 kg Most 45 kg
C30/37	Least 7,50 kg Most 22,50 kg	Least 10,50 kg Most 31,50 kg	Least 15 kg Most 45 kg	Least 18 kg Most 54 kg
C35/45	Least 8,75 kg Most 26,25 kg	Least 12,25 kg Most 36,75 kg	Least 17,50 kg Most 52,50 kg	Least 21 kg Most 63 kg
C40/50	Least 10 kg Most 37,50 kg	Least 14 kg Most 42 kg	Least 20 kg Most 60 kg	Least 24 kg Most 72 kg

Lean Concrete with Iron Designed Concrete	BK01 for 5 m³	BK01 for 7 m³	BK01 for 10 m³	BK01 for 12 m³
150 Dosage	Least 3,75 kg Most 11,25 kg	Least 5,25 kg Most 15,75 kg	Least 7,50 kg Most 22,50 kg	Least 9 kg Most 27 kg
200 Dosage	Least 5 kg Most 15 kg	Least 7 kg Most 21 kg	Least 10 kg Most 30 kg	Least 12 kg Most 36 kg
250 Dosage	Least 6,25 kg Most 18,75 kg	Least 8,75 kg Most 26,25 kg	Least 12,50 kg Most 37,50 kg	Least 15 kg Most 45 kg
300 Dosage	Least 7,50 kg Most 22,50 kg	Least 10,50 kg Most 31,50 kg	Least 15 kg Most 45 kg	Least 18 kg Most 54 kg

Screed Concrete with Iron	BK01 for 5 m³	BK01 for 7 m³	BK01 for 10 m³	BK01 for 12 m³
200 Dosage	Least 5 kg Most 15 kg	Least 7 kg Most 21 kg	Least 10 kg Most 30 kg	Least 12 kg Most 36 kg
300 Dosage	Least 7,50 kg Most 22,50 kg	Least 10,50 kg Most 31,50 kg	Least 15 kg Most 45 kg	Least 18 kg Most 54 kg
350 Dosage	Least 8,75 kg Most 26,25 kg	Least 12,25 kg Most 36,75 kg	Least 17,50 kg Most 52,50 kg	Least 21 kg Most 63 kg
400 Dosage	Least 10 kg Most 30 kg	Least 14 kg Most 42 kg	Least 20 kg Most 60 kg	Least 24 kg Most 72 kg
500 Dosage	Least 12,5 kg Most 37,5 kg	Least 17,50 kg Most 52,50 kg	Least 25 kg Most 75 kg	Least 30 kg Most 90 kg

Mixing Ratio

Plasticizer Added Lean Concrete with Iron - Designed	BK01 for 5 m³	BK01 for 7 m³	BK01 for 10 m³	BK01 for 12 m³
150 Dosage	Least 3,75 kg Most 7,50 kg	Least 5,25 kg Most 10,50 kg	Least 7,50 kg Most 15 kg	Least 9 kg Most 18 kg
200 Dosage	Least 5 kg Most 10 kg	Least 7 kg Most 14 kg	Least 10 kg Most 20 kg	Least 12 kg Most 24 kg
250 Dosage	Least 6,25 kg Most 12,50 kg	Least 8,75 kg Most 17,50 kg	Least 12,50 kg Most 25 kg	Least 15 kg Most 30 kg
300 Dosage	Least 7,50 kg Most 15,00 kg	Least 10,50 kg Most 21 kg	Least 15 kg Most 30 kg	Least 18 kg Most 36 kg

Plasticizer Added Screed Concrete with Iron	BK01 for 5 m³	BK01 for 7 m³	BK01 for 10 m³	BK01 for 12 m³
200 Doz	Least 5 kg Most 10 kg	Least 7 kg Most 14 kg	Least 10 kg Most 20 kg	Least 12 kg Most 24 kg
300 Doz	Least 7,50 kg Most 15 kg	Least 10,50 kg Most 21 kg	Least 15 kg Most 30 kg	Least 18 kg Most 36 kg
350 Doz	Least 8,75 kg Most 17,50 kg	Least 12,25 kg Most 24,50 kg	Least 17,50 kg Most 35 kg	Least 21 kg Most 42 kg
400 Doz	Least 10 kg Most 20 kg	Least 14 kg Most 28 kg	Least 20 kg Most 40 kg	Least 24 kg Most 48 kg
500 Doz	Least 12,50 kg Most 25 kg	Least 17,50 kg Most 35 kg	Least 25 kg Most 50 kg	Least 30 kg Most 60 kg

Class of Plasticizer Added Fresh Concrete	BK01 for 5 m³	BK01 for 7 m³	BK01 for 10 m³	BK01 for 12 m³
C8/10	Least 2 kg Most 4 kg	Least 2,80 kg Most 5,60 kg	Least 4 kg Most 8 kg	Least 4,80 kg Most 9,60 kg
C12/15	Least 3 kg Most 6 kg	Least 4,20 kg Most 8,40 kg	Least 6 kg Most 12 kg	Least 7,20 kg Most 14,40 kg
C16/20	Least 4 kg Most 8 kg	Least 5,60 kg Most 11,20 kg	Least 8 kg Most 16 kg	Least 9,60 kg Most 19,20 kg
C20/25	Least 5 kg Most 10 kg	Least 7 kg Most 14 kg	Least 10 kg Most 20 kg	Least 12 kg Most 24 kg
C25/30	Least 6,25 kg Most 12,50 kg	Least 8,75 kg Most 17,50 kg	Least 12,50 kg Most 25 kg	Least 15 kg Most 30 kg
C30/37	Least 7,50 kg Most 15,00 kg	Least 10,50 kg Most 21 kg	Least 15 kg Most 30 kg	Least 18 kg Most 36 kg
C35/45	Least 8,75 kg Most 17,50 kg	Least 12,25 kg Most 24,50 kg	Least 17,50 kg Most 35 kg	Least 21 kg Most 42 kg
C40/50	Least 10,00 kg Most 20 kg	Least 14 kg Most 28 kg	Least 20 kg Most 40 kg	Least 24 kg Most 48 kg

Mixing

- Mix thoroughly before use. Period of mixing in plastic can is ~ 2 minutes.
- After Molumer BK01 is added to mixing water, it should be homogeneously mixed with mortar ~5 minutes.

Manner of application

- It is added into wet concrete in the site before unloading.
- It should be applied water cure during 72 hours by starting from half hour after pouring concrete and covered with wind protectors against evaporation and loss of water by means of impermeable covers. It should be started watering after one hour in weather conditions more than +30°C. And this watering should be applied minimum 5 days.
- Curing in hot weather is useful.
- Fresh concrete should be compacted by vibration or skewer.

Equipment to be used and cleaning of equipment

Used tools and equipment should be cleaned by means of water. Molumer BK01 can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

Packaging: 25 kg. jerry can xxxx

Storing and lifetime: In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 3 pieces in maximum. In case that it cannot be used the whole product, lid of plastic should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

Technical Information

Chemical Structure:	Sodium aluminate based
Color:	Homogeneous Brown liquid when mixed
pH:	12±1
Density:	1,25 ± 0,05 kg/l
Amount of chlorine:	< 0,005 %
Amount of alkali:	Max. 5 %
Corrosion effect:	Admixture contents are in EN 934-1:2008, A.1 approved list.
Cement Setting Time - Starting	200C: 60 minutes, 50C: %40
Compressive strength:	28th day 90%, There has not been a fall in 90 days
Air Quantity in fresh concrete:	-0,2 %

MOLÜMER BK01	
CE 1783	
İZOTAŞ İZOLASYON TUR. SAN VE TİC. LTD. ŞTİ İnönü Mah. Fatih Sultan Cad. No:40 Ayrancılar Torbalı/ İZMİR 15	
1783 – CPR – 516 TS EN 934-2+A1: 2013 EN 934-2+A1:2012 Cement Setting Time Accelerator Chemical Additives, Table 6	
Maximum Chloride Content	As Mass Less Than %0,005
Maximum Alkali Content	As Mass Max. %5
Corrosion Effect: Additive Content	EN 934-1:2008, A.1 from approved list.
Dangerous Elements	Absent
Cement Setting Time - Starting	200C: 60 minute, 50C: %40
Compressive strength:	28. Day %90, 90.day no decrease.
Air quantity in Fresh Concrete	-%0,2

Old-New Concrete Adherence Additive

OLD-NEW CONCRETE ADHERENCE ADDITIVE

Definition
This is a ready-to-use, chloride-free adherence additive containing chemicals suitable for providing adherence between old and new concrete, building an elastic layer and filling capillary gaps and pores in the concrete sides with its reaction.

Areas of Use
- Curtain walls and foundation joints that will remain under the ground
- Basement floor curtain and foundation insulation joints
- Curtain and foundation joints of swimming pools, water tanks and purification plants
- Providing adherence between new and old concrete
- Before pouring alum on factory floor concrete
- Curing of concretes with additives.
- Surface of lean concretes.

Specifications
- Increases performance of dusty, crumbling plaster and alum surfaces.
- Pacifies lime.
- No incompatibility observed with concretes designed with super plasticisers.
- Can be used with concretes with plasticiser and super plasticiser additives.
- Condenses water vapour and has diffusion ability.
- Suitable to contact with drinking water.
- Antibacterial.

APPLICATION PROCEDURE AND INSTRUCTIONS
Preparation of surface
- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, sherbet of cement etc. on surface before starting application.
- It should be applied concrete to dust-free and wet surface.

Conditions of application
Temperature of surface and environment should be minimum + 5°C and maximum +35°C.

Expenditure
- Application with brush on easy application surfaces like alum, concrete: ~1-2 kg/m²
- Pouring on joining areas between old and new concrete: 2-3 kg/m²

Mixing Ratio
- Two part application should be used for joining areas between old and new concrete and for curing procedures.
- In accordance with the ratios indicated below, add Molumer Mix A to Adherence Additive and mix until homogeneous.

Molumer Old-New Concrete Adherence Additive	Mix A
For 20 Kg	6 kg

Mixing

- Make sure to mix the product before use. Mixing time in the plastic can is approximately 2 minutes.

Manner of Application

- Apply with a brush on easy application surfaces like alum, concrete. Pour on equipped, moulded or iron reinforced surfaces.
- In case of curtain concrete pouring use apparatuses like plastic pipes, funnels or bowls to ensure the mixture with Molumer Old-New Concrete Adherence Additive thoroughly coats the joining surface.
- In case of foundation joining applications pour mixture into the mould until a thickness of 1-3 mm is achieved.
- According to air temperature, the Molümer Old-New Concrete Adherence Additive must be applied 1-2 hours before new concrete pouring, but should not dry out.
- It should be applied hydropathy during 72 hours by starting from half hour after pouring concrete and covered with wind protectors against evaporation and loss of water by means of impermeable covers. It should be started watering after one hour in weather conditions more than +30°C. And this watering should be applied minimum 5 days.
- Curing in hot weathers is useful.

Equipment to be used and cleaning of equipment

Used tools and equipment should be cleaned by means of water. Molumer Old-New Concrete Adherence Additive can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Chemical structure:** Acrylic dispersion based
- **Color:** Homogeneous white liquid
- **pH:** 12.0±1.0
- **Density:** 1.03±0.02 kg/l
- **Packaging:** 20 kg. jerry can + 6 kg bag Mix A
- **Storing and lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 3 pieces in maximum. In case that it cannot be used the whole product, lid of plastic should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

Shock Water Cutter Admixture

BK03

Definition

It is a set accelerator additive that provides buffer against water leaks and has metal salts which are compatible with the inorganic chemistry of concrete.

Areas of Use

- Sprayed mortar and concrete (shotcrete) coatings
- To prevent water leaking and stop pressure water from bottom and side walls of structure built underground water level such as foundations, tunnels, basement floors and water reservoirs.
- Used to reinforce and chamfer weak surfaces and corners that might leak, or to dry a surface immediately.

Specifications

- Effects only cement.
- Allows the cement to set up at 15-40 seconds.
- Setting rate of BK03 added cement, passes penetration rate of water.

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of surface

- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, sherbet of cement etc. on surface before starting application.
- The hole with water flow should be opened at least 3x3 cm in order to reduce the water pressure. Care should be taken that the ratio of depth to width is 2/1.
- It can be applied to wet and damp surface.

Conditions of application

Temperature of surface and environment should be minimum + 5°C and maximum +35°C.

Waiting period between layers: +10°C~10 minutes
+20°C~5 minutes
+30°C~1 minutes

Expenditure

- Expenditure for buffering against water leaks changes depending on the surface condition, application thickness, losses such as shedding and cavity. It is recommended to make trial mixes for optimum mixing ratio, workability and setting time.
- For wet system concrete, it is recommended to use between 3% and 6% of binder weight for 20 cm thick layers to be applied in one go.

Mixing Ratio

- The cement to be used in the mixture with Molumer BK03 should only be of fresh Porland Cement 32,5 R or 42,5 R according to TS EN 197-1 standard.
- Hardening process can be adjusted by diluting 1-5 times for indefinite leaks

Mixing

- Put Molumer BK03 in a clean plastic bucket.
- Pour the cement to cover the surface of the liquid material (average 1 liquid to 3 cement ratio).
- Molumer BK03 and added cement are quickly mixed and brought to dough consistency.
- Prepared mortar with dough consistency should be used immediately. The quantity of mixture must be prepared so that it can be used quickly. Hardened mortar can not be used again.

Manner of Application

- Successfully achieved by mixing and applying cement in small cups in rapid succession.
- As the start of shock setting (determined by the heat rise), with the one-time mortar should be pressed in such a way as to close the hole and wait at least 2-3 minutes. The surface should be leveled with a trowel in the following minute.
- In the holes with large diameters; Around the hole should firstly be closed and make a shock setting especially via living a smaller hole in the center. And then to the small hole, same application must be done.
- For strong leaks, Molumer BK 03 should be mixed rapidly with small amount of cement to be carried by hand in small cups, buffered and waited for 20 seconds still.
- In case of water leaking or sweating surfaces, Molumer BK03 should be applied to the surface in pure form, and dry pure cement should be sprinkled on it and the surface shall be corrected by hand, using gloves. Depending on the surface condition, this process can be applied several times.

Equipment to be used and cleaning of equipment

- It is used with the help of gloves, trowel and hand.
- Used tools and equipment should be cleaned by means of water. Molumer BK03 can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Chemical structure:** Sodium aluminate based
- **Color:** Homogeneous transparent liquid when mixed
- **pH:** 12.0±1.0
- **Density:** 1.30±0.05 kg/l
- **Chloride:** Less than 0.005%.
- **Alkali:** Max 5%
- **Packaging:** 25 kg. jerry can
- **Storing and Lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 3 pieces in maximum. In case that it cannot be used the whole product, lid of plastic should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

Early and Final Strength Increasing
Super Plasticizing Admixture

BK05-C

Definition

It is a naphthalene sulphonate based concrete admixture material which improves early and last strength by decreasing the requirement of mixed water of cement and giving high fluidity.

Areas of Use

- Construction foundations and basements
- In treatment plants, in water tanks
- Preparing concrete whose rate of Water/Cement is lower
- Dams, tunnels and canals,
- Concrete manholes (entries of sewerage systems),
- Producing concrete equipped with frequent and thin iron bars,
- Prefabricated concretes,
- Producing ready-mixed concrete with pump and without pump

Specifications

- It provides higher workability and easier pump ability at the lower rate of water/cement than concrete without additive,
- Provides good subsidence in even low vibration.
- Gains smooth surface to concrete.
- Provides saving from costs of vibration, rodding and workmanship.
- Increases impermeability, early and last resistance of concrete.
- Does not include any other component that can case chloride and corrosion.

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of surface

- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, sherbet of cement etc. on surface before starting application.
- It should be applied concrete to dust-free and wet surface.
- The most negative environment for pouring of concrete is sweltering, dry and windy weather conditions. In newly poured fresh concrete, it is appeared loss of excess water. As a result of this event, it is appeared loss of sedimentation, accelerating of hardening, air gaps and cracks of plastic shrinkage on surface. This affects resistance of concrete negatively. To become air temperature more than 30°C while pouring concrete makes necessary to take actions for concrete.

Conditions of application

Temperature of surface and environment minimum + 5°C and maximum +35°C.
It should be applied water cure in temperatures more than 35°C.

Expenditure

- Generally it is recommended to add this product to concrete at the rate between 1,5 % (one and a half percent) and 0.5 % (half percent) of cement amount.
- Dosage of use should be determined with lab experiments to be previously made according to class and characteristics of concrete.

Mixing

- First Molumer BK05-C is added to mixing water and it is mixed until obtaining a homogeneous mixing.
- The mixing water which been added Molumer BK05-C before, is added in to freshly prepared and has low sedimentation property concrete, then the admixture is mixed about 3 minutes for being ready to pour.

Manner of Application

- It is added into wet concrete in the site before unloading.
- It should be applied water cure during 72 hours by starting from half hour after pouring concrete and covered with wind protectors against evaporation and loss of water by means of impermeable covers. It should be started watering after one hour in weather conditions more than +30°C. And this watering should be applied min. 5 days.

Equipment to be used and cleaning of equipment

- Used tools and equipment should be cleaned by means of water. Molumer BK05-C can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

Packaging: 25 kg. Jerry can, 250 kg. Barrel, 1200 kg. IBC.
Storing and Lifetime: In cool and dry environment, it should be stored by protecting from sunlight and frost. In case that it cannot be used the whole product, lid of package should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

TECHNICAL INFORMATION

Chemical structure:	Esential naphthalene sulphonate
Color:	Brown homogenous liquid
pH:	7±1
Density:	1,18 ± 0,04 kg/lt
Amount of chlorine:	< %0,005
Amount of alkali:	Max. %6
Corrosion effect:	Admixture contents are in EN 934-1:2008, A.1 approved list.
Water decreasing:	Min. %30
Compressive strength:	%110
Air Quantity in fresh concrete:	-%0,2

MOLÜMER BK05-C	
CE 1783	
İZOTAŞ İZOLASYON TUR. SAN VE TİC. LTD. ŞTİ İnönü Mah. Fatih Sultan Cad. No:40 Ayrancılar Torbalı/ İZMİR 15	
1783 – CPR – 516 TS EN 934-2+A1: 2013 EN 934-2+A1:2012 High Ratio Water Decrease/ Super Plasticizer Chemical Additives Table 3.1/3.2	
Maximum Chloride Content	As Mass Less Than %0,005
Maximum Alkali Content	As Mass Max. %6
Corrosion Effect: Additive Content	EN 934-1:2008, A.1 from approved list.
Dangerous Elements	Absent
Water Decrease	30%
Pressure Resistance	110%
Air quantity in Fresh Concrete	-%0,2

High Range Water Reducing / Hyper Plasticizing Admixture

BK05-D

Definition

It is naphthalene sulphonate essential, modified polymer concrete additive material, which 30% decreases the mixing-water requirement of cement and fluidize the cement in high ratio.

Areas of Use

- Construction foundations and basements
- Treatment plants and water tanks
- Preparing concrete whose rate of Water/Cement is lower
- Dams, tunnels and canals,
- Concrete manholes (entries of sewerage systems),
- Producing concrete equipped with frequent and thin iron bars,
- Prefabricated concretes,
- Producing ready-mixed concrete with pump and without pump

Specifications

- Provides higher workability and easier pump ability at the lower rate of water/cement than concrete without additive,
- Provides good subsidence in even low vibration.
- Gains smooth surface to concrete.
- Provides saving from costs of vibration, skewer works and workmanship.
- It increases impermeability, early and last resistance of concrete.

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of surface

- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, sherbet of cement etc. on surface before starting application.
- It should be applied concrete to dust-free and wet surface.
- The most negative environment for pouring of concrete is sweltering, dry and windy weather conditions. In newly poured fresh concrete, it is appeared loss of excess water. As a result of this event, it is appeared loss of sedimentation, accelerating of hardening, air gaps and cracks of plastic shrinkage on surface. This affects resistance of concrete negatively. To become air temperature more than 30°C while pouring concrete makes necessary to take actions for concrete.

Conditions of application

Temperature of surface and environment minimum + 5°C and maximum +35°C.
It should be applied water cure in temperatures more than 35°C.

Expenditure

- Generally it is recommended to add this product into concrete at the rate between 1,5 % (one and a half percent) and 0.5 % (half percent) of cement amount.
- Dosage of use should be determined with lab experiments to be previously made according to class and characteristics of concrete.
- When it is used more than recommended range of dosage in the rate, the cement setting time extends.

Mixing

- First Molumer BK05-D is added to mixing water and it is mixed until obtaining a homogeneous mixing.
- The mixing water which been added Molumer BK05-D before, is added in to freshly prepared and has low sedimentation property concrete, then the admixture is mixed about 3 minutes for being ready to pour.

Manner of Application

- It is added into wet concrete in the site before unloading.
- It should be applied water cure during 72 hours by starting from half hour after pouring concrete and covered with wind protectors against evaporation and loss of water by means of impermeable covers. It should be started watering after one hour in weather conditions more than +30°C. And this watering should be applied min. 5 days.

Equipment to be used and cleaning of equipment

Used tools and equipment should be cleaned by means of water. Molumer BK05-D can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

Chemical structure:	Modified polymer liquid with essential naphthalene sulphonate
Color:	Brown homogenous liquid
pH:	7±1
Density:	1,20 ± 0,04 kg/lt
Amount of chlorine:	Max. %1
Amount of alkali:	Max. %8
Corrosion effect:	Admixture contents are in EN 934-1:2008, A.1 approved list.
Water decreasing:	Min. %12
Compressive strength:	%126,8
Air Quantity in fresh concrete:	-%0,0

- **Packaging:** 25 kg. Plastic can, 250 kg. Barrel, 1200 kg. IBC.
- **Storing and Lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost. In case that it cannot be used the whole product, lid of package should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

MOLÜMER BK05-D	
CE 1783	
İZOTAŞ İZOLASYON TUR. SAN VE TİC. LTD. ŞTİ İnönü Mah. Fatih Sultan Cad. No:40 Ayrancılar Torbalı/ İZMİR 15	
1783 – CPR – 516 TS EN 934-2+A1: 2013 EN 934-2+A1:2012 High Ratio Water Decrease/ Super Plasticizer Chemical Additives Table 3.1/3.2	
Maximum Chloride Content	As Mass Less Than %1
Maximum Alkali Content	As Mass Max. %8
Corrosion Effect: Additive Content	EN 934-1:2008, A.1 from approved list.
Dangerous Elements	Absent
Water Decrease	Min. 12%
Compressive Strength	126,8%
Air quantity in Fresh Air	-%0,0

MOLÜMER

PAINT and THERMAL PRODUCTS

Water Based Interior Wall Painting

PLASTIC PAINT

Definition
Acrylic copolymer-bound, water-based, silk mat decorative interior paint.

Areas of Use
Concrete, brick, gypsum board, plaster etc. Used in building elements and interior spaces.

Specifications
- Superior whiteness
- Easy-to-apply paint and spread well
- Silk mat smooth look
- Water vapor permeable
- Has high covering power
- Does not crack or spill
- Excellent adhesion to all surfaces

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- The surface should be leveled to obtain a primed or solid surface.
- Before painting, the plaster, paste priming and similar surface treatments should be completed.
- Do not apply to wet and damp surfaces.

Conditions of Applications
Temperature of surface and Environment Minimum + 5°C Maximum + 35°C

Waiting Period between Layers
~ 8 hours at +10°C
~ 4 hours at + 20°C
~ 2 hours at +30°C

Expenditure
Depending on the application surface, colors, losses such as spillage and voids, 1lt paint covers 5-7 m², 1 kg paint 3-5 m² area. (For single layer 28 ± 5mic)

Mixing
- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Mixing time is ~2 minutes.

Manner of Application
- Stir well before use; apply with a brush or roller. Depending on the application surface can be diluted with water by 10-20%.
- If the surface to be applied is a loose and weak surface, Molumer Insulating Primer should be applied by thinning in 1/7 ratio and the surface should be well saturated. After at least 6 hours, application of paint should be started.
- For the applications on the stucco, it is recommended to apply Molumer Acrylic Interior Wall Covering Primer before painting.

Equipment to be used and cleaning of equipments
- Roller or whitewash brush is used in practice.
- Tools and equipment should be cleaned with water and thinner. Molumer Silicone Water Based Exterior Wall Paints can only be mechanically cleaned from the surface after drying and curing.

RECOMMENDATIONS OF SECURITY
Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Molumer for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
• Color: Standard color-chart colors **•pH:** 8 ± 1 **•Density:** 1,65 ± 0,05 **•Viscosity:** 8000 ± 3000 **•Packaging:** 3.5 kg - 10 kg and 20 kg plastic bucket
• Storing and Lifetime: In a cool and dry environment, it should be stacked and stored as a maximum of 4 pieces on top of each other, protecting it from direct sunlight and frost. If the complete product is not used, the bucket cover should be closed tightly and the product should not be allowed to air up to next usage. Storage life is 2 years from production date.

Water Based Interior Wall Painting

UNIVERSAL PLASTIC PAINT

Definition
Styrene-acrylic copolymer-bound, decorative mat, water based interior paint.

Areas of Use
Concrete, brick, gypsum board, plaster etc., in building elements and interior spaces.

Specifications
- Has high covering power
- Superior whiteness
- Non-fading
- Easy-to-apply paint and spread well
- Silk mat smooth look
- Water vapor permeable
- Does not crack or spill
- Excellent adhesion to all surfaces

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- The surface should be leveled to obtain a primed or solid surface.
- Before painting, the plaster, paste priming and similar surface treatments should be completed.
- Do not apply to wet and damp surfaces.

Conditions of Applications
Temperature of surface and Environment Minimum + 5°C Maximum + 35°C

Waiting Period between Layers
~ 8 hours at +10°C
~ 4 hours at + 20°C
~ 2 hours at +30°C

Expenditure
- Depending on the thickness of the application and the surface; 1lt paint covers 12-15 m2 and 1 kg paint covers 7-9 m2 area
- It is recommended to apply 2 coats.

Mixing
- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Mixing time is ~ 2 minutes.

Manner of Application
- Universal Plastic Paint can be applied directly on the surfaces which are cement-added and applied water insulation before.
- It is recommended to apply 1 layer of satin plaster-primer to putty surfaces or gypsum paste applicated surfaces, before painting.
- It is recommended to apply universal facade primer before painting for surface mounted applications.
- Depending on the surface of the application, it can be diluted with water by 15-20%.

Equipment to be used and cleaning of equipments
- Roller or whitewash brush is used in practice.
- Tools and equipment should be cleaned with water and thinner. Molumer Universal Plastic Paint can only be mechanically cleaned from the surface after drying and curing.

RECOMMENDATIONS OF SECURITY
Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Molumer for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
- **Color:** White • **pH:** 8 ± 1 • **Density:** 1,65 ± 0,05 • **Viscosity:** 8000 ± 3000 • **Packaging:** 3.5 kg - 10 kg and 20 kg plastic bucket
- **Storing and Lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 4 pieces on top of each other, protecting it from direct sunlight and frost. If the complete product is not used, the bucket cover should be closed tightly and the product should not be allowed to air up to next usage. Storage life is 2 years from production date.

SUPER PLASTIC PAINT

Definition
Water-based, styrene acrylic co-polymer bonded mat interior paint.

Areas of Use
Concrete, brick, gypsum board, plaster etc. Used in building elements and interior spaces.

Specifications
- Superior whiteness
- Easy-to-apply paint and spread well
- Matte smooth appearance
- Water vapor permeable
- Does not crack or spill
- High adhesion ability
- Covering power is high
- Cleanable and permanent colors
- Dirt and dust free

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications, and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- The surface should be leveled to obtain a primed or solid surface.
- Before painting, the plaster, paste priming and similar surface treatments should be completed.
- Do not apply to wet and damp surfaces.

Conditions of Applications
Temperature of surface and Environment Minimum + 5°C Maximum + 35°C

Waiting Period between Layers
~ 8 hours at +10°C
~ 4 hours at + 20°C
~ 2 hours at +30°C

Expenditure
- Depending on the nature of the application surface, losses such as spillage and voids, 1lt of paint covers 12-15 m², 1 kg of paint covers 7-9 m². area
- At least 2 coats should be applied.

Mixing
- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Mixing time is ~ 2 minutes.

Manner of Application
- Molumer Super Plastic Paint can be applied by spraying directly onto cement-added surfaces with water insulation.
- It is recommended to apply 1 layer of satin plaster-primer to putty surfaces or gypsum paste applicated surfaces, before painting.
- For surface-mounted applications, it is recommended to apply Acrylic Interior Wall Covering Primer before painting.
- Depending on the surface of the application, it can be diluted with water by 15-20 %.

Equipment to be used and cleaning of equipments
- Roller or whitewash brush is used in practice.
- Tools and equipment should be cleaned with water and thinner. The Molumer Super Plastic Paint can only be mechanically cleaned from the surface after drying and curing.

RECOMMENDATIONS OF SECURITY
Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Molumer for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
- **Color:** White • **pH:** 8 ± 1 • **Density:** 1,65 ± 0,05 • **Viscosity:** 8000 ± 3000 • **Packaging:** 1 kg - 3.5 kg - 10 kg and 20 kg plastic bucket
- **Storing and Lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 4 pieces on top of each other, protecting it from direct sunlight and frost. If the complete product is not used, the bucket cover should be closed tightly and the product should not be allowed to air up to next usage. Storage life is 2 years from production date.

Silicone Water Based Matt
Interior Wall Painting

PLAST SILICONE MATT PAINT

Definition
Water-based, acrylic copolymer-binding, silk mat interior paint.

Areas of Use
Concrete, brick, gypsum board, plaster etc. Used in building elements and interior spaces.

Specifications
- Superior whiteness
- Cleanable and permanent colors
- Easy-to-apply paint and spread well
- Covering power is high
- Flat silk matt
- Water vapor permeable
- Does not crack or spill

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- The surface should be leveled to obtain a primed or solid surface.
- The plaster surface, paste priming and similar surface treatments must be completed beforehand.
- Do not apply to wet and damp surfaces.

Conditions of Applications
Temperature of surface and Environment Minimum + 5°C Maximum + 35°C

Waiting Period between Layers
~ 8 hours at +10°C
~ 4 hours at + 20°C
~ 2 hours at +30°C

Expenditure
Depending on the nature of the application surface, losses such as spillage and voids, are in the range of 1lt paint covers 5-7 m² and 1 kg paint covers 3-5 m². area (For single layer 28 ± 5mic)

Mixing
- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Mixing time is ~ 2 minutes.

Manner of Application
- Molumer Plast Matt Interior Paint can be applied by spreading directly on the waterproofed cement-added surfaces.
- It is recommended to apply 1 layer of satin plaster-primer to putty surfaces or gypsum paste applicated surfaces, before painting.
- For surface-mounted applications, it is recommended to apply Silicone Interior Wall Covering Primer before painting.
- Depending on the surface of the application, it can be diluted with water by 15-20 %.

Equipment to be used and cleaning of equipments
- Roller or whitewash brush is used in practice.
- Tools and equipment should be cleaned with water and thinner. Molumer Plast Silicone Matt Interior Paint can only be mechanically cleaned from the surface after drying and curing.

RECOMMENDATIONS OF SECURITY
Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Molumer for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
- **Color:** Standard color-chat colors •**pH:** 8 ± 1 •**Density:** 1,65 ± 0,05 •**Viscosity:** 8000 ± 3000 •**Packaging:** 3.5 kg-10 kg and 20 kg plastic bucket
- **Storing and Lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 4 pieces on top of each other, protecting it from direct sunlight and frost. If the complete product is not used, the bucket cover should be closed tightly and the product should not be allowed to air up to next usage. Storage life is 2 years from production date.

Silicone Water Based Matt
Interior Wall Painting

SILICONE MAT PAINT

Definition
Water-based, styrene Acrylic copolymer-binding, soft mat interior paint.

Areas of Use
Concrete, brick, gypsum board, plaster etc. Used in building elements and interior spaces.

Specifications
- Superior whiteness
- Decorative
- Cleanable and permanent colors
- Easy-to-apply paint and spread well
- Soft mat smooth appearance
- Water vapor permeable
- Covering power is high
- Does not crack or spill
- Moisture and vapor resistant

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- The surface should be leveled to obtain a primed or solid surface.
- The surface to be painted should be completed before
- Before painting, the plaster, paste priming and similar surface treatments should be completed.
- Do not apply to wet and damp surfaces.

Conditions of Applications
Temperature of surface and Environment Minimum + 5°C Maximum + 35°C

Waiting Period between Layers
~ 8 hours at +10°C
~ 4 hours at + 20°C
~ 2 hours at +30°C

Expenditure
- Depending on the nature of the application surface, losses such as spillage and voids, 1lt paint covers 12-15 m² and 1 kg paint covers 7-9 m² area. At least 2 coats should be applied.

Mixing
- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Mixing time is ~ 2 minutes.

Manner of Application
- Molumer Silicone Water Based Matt Inner Wall Paints can be applied by spraying directly onto cement-added surfaces with water insulation.
- It is recommended to apply 1 layer of satin plaster-primer to putty surfaces or gypsum paste applicated surfaces, before painting.
- For surface-mounted applications, it is recommended to apply Silicone Interior Wall Covering Primer before painting.
- Depending on the surface of the application, it can be diluted with water by 15-20 %.

Equipment to be used and cleaning of equipments
- Roller or whitewash brush is used in practice.
- Tools and equipment should be cleaned with water and thinner. Molumer Silicone Water Based Matt Interior Wall paint can only be mechanically cleaned from the surface after drying and curing.

RECOMMENDATIONS OF SECURITY
Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Triyo for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
- **Color:** White • **pH:** 8 ± 1 • **Density:** 1,65 ± 0,05 • **Viscosity:** 8000 ± 3000 • **Packaging:** 3.5 kg - 10 kg and 20 kg plastic bucket
- **Storing and Lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 4 pieces on top of each other, protecting it from direct sunlight and frost. If the complete product is not used, the bucket cover should be closed tightly and the product should not be allowed to air up to next usage. Storage life is 2 years from production date.

Water Based Interior Ceiling Painting

CEILING PLASTIC PAINT

Definition
It is water based, acrylic copolymer binding mat ceiling paint.

Areas of Use
In the interior of the buildings, all types of concrete, plasterboard, eternit, betopan etc., Used in building elements.

Specifications
- Decorative
- Covering power is high
- Superior whiteness
- Non yellowing
- Easy-to-apply paint and spread well
- Matte and smooth appearance
- Water vapor permeable
- Does not crack or spill
- High adhesion ability

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications, cement grout should be cleaned
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- The surface should be leveled to obtain a primed or solid surface.
- Before painting, the plaster, paste priming and similar surface treatments should be completed.
- Do not apply to wet and damp surfaces.

Conditions of Applications
Temperature of surface and Environment Minimum + 5°C Maximum + 35°C

Waiting Period between Layers
~ 8 hours at +10°C
~ 4 hours at + 20°C
~ 2 hours at +30°C

Expenditure
- Depending on the nature of the application surface, losses such as spillage and voids 1 L paint covers 7-9 m², and 1 kg paint covers 4-6 m² area. (28 ± 5 microns in single layer)

Mixing
- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Mixing time is ~ 2 minutes.

Manner of Application
- Molumer plastic ceiling painting can be applied by directly painting on cementitious surfaces provided with water insulation.
- It is recommended to apply 1 layer of satin plaster-primer to putty surfaces or gypsum paste applicated surfaces, before painting.
- For surface-mounted applications, it is recommended to apply Acrylic Interior Wall Covering Primer before painting.
- The application can be diluted with water by 10-15% according to the surface property.

Equipment to be used and cleaning of equipments
- Roller or whitewash brush is used in practice.
- Tools and equipment should be cleaned with water and thinner.
- Molumer plastic ceiling paint can only be mechanically cleaned from the surface after drying and curing.

RECOMMENDATIONS OF SECURITY
Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Triyo for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
- **Color:** White • **pH:** 8 ± 1 • **Density:** 1,68 ± 0,05 • **Viscosity:** 8000 ± 3000 • **Packaging:** 3.5 kg - 10 kg - 17.5 kg and 20 kg plastic bucket
- **Storing and Lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 4 pieces on top of each other, protecting it from direct sunlight and frost. If the complete product is not used, the bucket cover should be closed tightly and the product should not be allowed to air up to next usage. Storage life is 2 years from production date.

Acrylic Water Based Exterior Painting

ACRYLIC EXTERIOR PAINT

Definition
The styrene acrylic copolymer-bonded, water-based decorative matt exterior paint.

Areas of Use
Exterior parts of buildings are used with suitable primer on all types of walls, concrete, the aerated, brick etc. It can also be used for decorative purposes on interior facades.

Specifications
- Non-fading, decorative and permanent colors
- Has high covering power
- Long-lasting, well-spread
- Matte smooth appearance
- Resistant to UV rays

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, and spatula can be used according to the cleanliness required on the surface.
- The surface should be leveled to obtain a primed or solid surface.
- The surface to be painted should be completed before the plaster, paste priming and similar surface treatments.
- Do not apply to wet and damp surfaces.

Conditions of Applications
Temperature of surface and Environment Minimum + 5°C Maximum + 35°C

Waiting Period between Layers
~ 8 hours at +10°C
~ 4 hours at + 20°C
~ 2 hours at +30°C

Expenditure
- Depending on the application surface, colors, losses such as spillage and voids, 1lt of paint covers 12-16 m2 and 1 kg of paint covers 10-14 m2 area. (For single layer 28 ± 5mic)
- At least 2 coats should be applied.

Mixing
- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Mixing time is ~ 2 minutes.

Manner of Application
- Molumer Acrylic Exterior Painting can be applied directly on cement-added surfaces with water insulation.
- It is recommended to apply 1 coat of Molumer exterior primer before painted surfaces with putty or gypsum paste applied.
- Depending on the surface of the application, it can be diluted with water by 15-20 %.

Equipment to be used and cleaning of equipments
- Roller or whitewash brush is used in practice.
- Tools and equipment should be cleaned with water and thinner. Molumer Acrylic Water Based Exterior Wall Paints can only be mechanically cleaned from the surface after drying and hardening.

RECOMMENDATIONS OF SECURITY
Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Molumer for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
- **Color:** Standard color-chart colors •**pH:** 8 ± 1 •**Density:** 1,65 ± 0,05 •**Viscosity:** 8000 ± 3000 •**Packaging:** 3.5 kg - 10 kg and 20 kg plastic bucket
- **Storing and Lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 4 pieces on top of each other, protecting it from direct sunlight and frost. If the complete product is not used, the bucket cover should be closed tightly and the product should not be allowed to air up to next usage. Storage life is 2 years from production date.

Silicone Water Based Exterior Painting

SILICONE EXTERIOR PAINT

Definition
Styrene acrylic copolymer-bonded, silicone additive, decorative mat, water-based exterior paint.

Areas of Use
Exterior parts of buildings are used with suitable primer on all types of walls, concrete, concrete, the aerated and brick etc. It can also be used for decorative purposes on interior facades.

Specifications
- Non-fading, decorative and permanent colors
- Has high covering power
- Long lasting, special wax added
- Hydron and silicon added
- Resistant to rain before drying
- Well spread
- Resistant to UV rays

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- The surface should be leveled to obtain a primed or solid surface.
- The surface to be painted should be completed before the plaster, paste priming and similar surface treatments.
- Do not apply to wet and damp surfaces.

Conditions of Applications
Temperature of surface and Environment Minimum + 5°C Maximum + 35°C

Waiting Period between Layers
~ 8 hours at +10°C
~ 4 hours at + 20°C
~ 2 hours at +30°C

Expenditure
- Depending on the application surface, colors, losses such as spillage and voids, 1lt of paint covers 12-16 m2, 1 kg of paint covers 10-14 m2 area. (For single layer 28 ± 5mic)
- At least 2 coats should be applied.

Mixing
- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Mixing time is ~ 2 minutes.

Manner of Application
- Molumer Silicone Water Based Exterior Painting can be applied by spraying directly onto cement-added surfaces with water insulation.
- It is recommended to apply 1 coat of Molumer exterior primer before painted surfaces with putty or gypsum paste applied.
- Depending on the surface of the application, it can be diluted with water by 15-20 %.

Equipment to be used and cleaning of equipments
- Roller or whitewash brush is used in practice.
- Tools and equipment should be cleaned with water and thinner. Molumer Silicone Water Based Exterior Wall Paints can only be mechanically cleaned from the surface after drying and curing

RECOMMENDATIONS OF SECURITY
Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Molumer for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
- **Color:** Standard color-chart colors •**pH:** 8 ± 1 •**Density:** 1,65 ± 0,05 •**Viscosity:** 8000 ± 3000 •**Packaging:** 3.5 kg-10 kg and 20 kg plastic bucket
- **Storing and Lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 4 pieces on top of each other, protecting it from direct sunlight and frost. If the complete product is not used, the bucket cover should be closed tightly and the product should not be allowed to air up to next usage. Storage life is 2 years from production date.

Acrylic Interior Wall Covering Primer

ACRYLIC INTERIOR WALL COVERING PRIMER

Definition
Water based, styrene acrylic resin based, matte and covering interior primer.

Areas of Use
On the inner surfaces of the buildings, plaster, concrete, brick, etc. It is used as the first inner surface covering primer.

Specifications
- High adhesion and covering ability
- Matte surface
- Superior whiteness
- Provides sturdy infrastructure for the final coat interior paint
- Reduce paint consumption
- Extends paint life

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- Not to be applied to wet surface

Conditions of Applications
Temperature of surface and Environment Minimum + 5°C Maximum + 35°C

Waiting Period between Layers
~ 8 hours at +10°C
~ 4 hours at + 20°C
~ 2 hours at +30°C

Expenditure
- According to the losses such as spillage and voids, average single layer covers 10-12 m2 / L depending on the application surface.

Mixing
- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Mixing time is ~ 2 minutes.

Manner of Application
- Depending on the surface of the application, it can be diluted with water by 15-20 %.
- At least 2 coats should be applied.

Equipment to be used and cleaning of equipments
- Roller or whitewash brush is used in practice.
- Tools and equipment should be cleaned with water and thinner. Acrylic Inner Wall Coating After the primer has dried and hardened, it can only be mechanically cleaned from the surface.

RECOMMENDATIONS OF SECURITY
Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Molumer for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
- **Color:** White • **pH:** 8 ± 1 • **Density:** 1,62 ± 0,05 • **Viscosity:** 6000 ± 2000 • **Packaging:** 3.5 kg - 10 kg and 20 kg plastic bucket
- **Storing and Lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 4 pieces on top of each other, protecting it from direct sunlight and frost. If the complete product is not used, the bucket cover should be closed tightly and the product should not be allowed to air up to next usage. Storage life is 2 years from production date.

Silicone Interior Wall Covering Primer

SILICONE INTERIOR WALL COVERING PRIMER

Definition
Water based, silicone additive, styrene acrylic resin based, opaque mat interior wall covering primer.

Areas of Use
On the inner surfaces of the buildings, plaster, concrete, brick, etc.

Specifications
- High adhesion and covering ability
- Matte surface
- High vapor permeability
- Breathable
- Superior whiteness
- Provides sturdy infrastructure for the final coat exterior paint
- Reduces the consumption of final coat exterior paint

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- Not to be applied to wet surface.

Conditions of Applications
Temperature of surface and Environment Minimum + 5°C Maximum + 35°C

Waiting Period between Layers
~ 8 hours at +10°C
~ 4 hours at + 20°C
~ 2 hours at +30°C

Expenditure
According to losses such as spillage and voids, average single layer covers 10-12 m^2/ L

Mixing
- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Mixing time is ~2 minutes.

Manner of Application
- Depending on the surface of the application, it can be diluted with water by 15-20 %.

Equipment to be used and cleaning of equipments
- Roller or whitewash brush is used in practice.
- Tools and equipment should be cleaned with water and thinner. Silicone Inner Wall Covering Primer can only be mechanically cleaned from the surface after drying and curing.

RECOMMENDATIONS OF SECURITY
Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Molumer for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
- **Color:** White • **pH:** 8 ± 1 • **Density:** 1,62 ± 0,05 • **Viscosity:** 6000 ± 2000 • **Packaging:** 3.5 kg - 10 kg and 20 kg plastic bucket
- **Storing and Lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 4 pieces on top of each other, protecting it from direct sunlight and frost. If the complete product is not used, the bucket cover should be closed tightly and the product should not be allowed to air up to next usage. Storage life is 2 years from production date.

Acrylic Water Based Exterior Primer

ACRYLIC EXTERIOR WALL PRIMER

Definition
Water based, acrylic copolymer based exterior primer.

Areas of Use
- On the exterior surfaces of building elements such as plaster, concrete, brick wall. It can also be used indoors when required

Specifications
- Matte appearance
- Closure power is high
- Reduces the consumption of final coat exterior paint
- Provides sturdy infrastructure for the final coat exterior paint

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- Not to be applied to wet surface.

Conditions of Applications
Temperature of surface and Environment Minimum + 5°C Maximum + 35°C

Waiting Period between Layers
~ 8 hours at +10°C
~ 4 hours at + 20°C
~ 2 hours at +30°C

Expenditure
According to losses such as spillage and voids with 1 lt paint 8-10 m^2 and with 1 kg paint 4-6 m^2 can be covered depending on the application surface.

Mixing
- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Mixing time is ~2 minutes.

Manner of Application
- Depending on the surface of the application, it can be diluted with water by 15-20 %.

Equipment to be used and cleaning of equipments
- Roller or whitewash brush is used in practice.
- Tools and equipment should be cleaned with water and thinner. Acrylic Water Based Exterior Facade After drying and hardening, it can only be mechanically cleaned from the surface.

RECOMMENDATIONS OF SECURITY
Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Molumer for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
- **Color:** White • **pH:** 8 ± 1 • **Density:** 1,62 ± 0,05 • **Viscosity:** 6000 ± 2000 • **Packaging:** 3.5 kg - 10 kg and 20 kg plastic bucket
- **Storing and Lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 4 pieces on top of each other, protecting it from direct sunlight and frost. If the complete product is not used, the bucket cover should be closed tightly and the product should not be allowed to air up to next usage. Storage life is 2 years from production date.

Silicone Exterior Wall Cover Primer

SILICONE EXTERIOR WALL COVER PRIMER

Definition
Water-based, silicone-reinforced, styrene acrylic copolymer binder mat exterior primer.

Areas of Use
- It is used as primer in building materials such as wall, concrete, brick, betopan, the aerated and in all parts of the buildings.

Specifications
- Matte appearance
- Closure power is high
- Reduce paint consumption
- Provides good adhesion of the topcoat to the surface
- Extends the life of exterior paint

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- Not to be applied to wet surface.

Conditions of Applications
Temperature of surface and Environment Minimum + 5°C Maximum + 35°C

Waiting Period between Layers
~ 8 hours at +10°C
~ 4 hours at + 20°C
~ 2 hours at +30°C

Expenditure
According to losses such as spillage and voids, average single layer covers 10-12 m² / L

Mixing
- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Mixing time is ~2 minutes.

Manner of Application
- Depending on the surface of the application, it can be diluted with water by 15-20 %.

Equipment to be used and cleaning of equipments
- Roller or whitewash brush is used in practice.
- Tools and equipment should be cleaned with water and thinner. Silicone Exterior Liner can only be mechanically cleaned from the surface after drying and curing.

RECOMMENDATIONS OF SECURITY
Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Molumer for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
- **Color:** White • **pH:** 8 ± 1 • **Density:** 1,62 ± 0,05 • **Viscosity:** 6000 ± 2000 • **Packaging:** 3.5 kg - 10 kg and 20 kg plastic bucket
- **Storing and Lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 4 pieces on top of each other, protecting it from direct sunlight and frost. If the complete product is not used, the bucket cover should be closed tightly and the product should not be allowed to air up to next usage. Storage life is 2 years from production date.

Interior and Exterior Wall Transition Primer

CHANGE PRIMER

Definition
It is water based, styrene acrylic copolymer based, matt transition liner that can be applied on inner and outer surfaces.

Areas of Use
- When it is desired to apply water-based paint on synthetic exterior facades,
- To the outer surfaces of the structural elements like plaster, concrete, fine plaster bricks, etc.
- Pre-applied surfaces

Specifications
- High adhesion and covering ability
- Creating a solid surface
- Providing high adherence on the surfaces
- Transition from a solvent-based surface to a water-based surface
- Reduce surface preparation and interior paint consumption
- Passing from dark to light colors

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- Not to be applied to wet surface.

Conditions of Applications
Temperature of surface and Environment Minimum + 5°C Maximum + 35°C

Waiting Period between Layers
~ 8 hours at +10°C
~ 4 hours at + 20°C
~ 2 hours at +30°C

Expenditure
According to losses such as spillage and voids, average single layer covers 10-12 m² / L

Mixing
- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Mixing time is ~2 minutes.

Manner of Application
- Depending on the surface of the application, it can be diluted with water by 15-20 %.
- At least 2 coats should be applied.

Equipment to be used and cleaning of equipments
- Roller or whitewash brush is used in practice.
- Tools and equipment should be cleaned with water and thinner. Interior and Exterior Surface Modification After the primer has dried and hardened, it can only be mechanically cleaned from the surface.

RECOMMENDATIONS OF SECURITY
Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Molumer for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
- **Color:** White • **pH:** 8 ± 1 • **Density:** 1,62 ± 0,05 • **Viscosity:** 6000 ± 2000 • **Packaging:** 1 kg - 3,5 kg - 10 kg - 20 kg plastic bucket
- **Storing and Lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 4 pieces on top of each other, protecting it from direct sunlight and frost. If the complete product is not available, the bucket cover should be closed tightly and the product should not be allowed to air up next usage. Storage life is 2 years from production date.

Water Based Transparent Interior and Exterior Primer

IZOLAN PRIMER

Definition
It is water based acrylic copolymer based transparent primer for interior and exterior surfaces.

Areas of Use
It is a primer which absorbs surface powders and has strong water impermeability in undercoat primer on absorbent surfaces such as satin plaster, plaster, concrete which will be painted for the first time on the inner and outer surfaces of buildings.

Specifications
- Transparent
- Strengthens the infrastructure
- Reduces the consumption of finish coat
- Provides resistance against mildew, prevents humidity

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- Not to be applied to wet surface.

Conditions of Applications
Temperature of surface and Environment Minimum + 5°C Maximum + 35°C

Waiting Period between Layers
~ 8 hours at +10°C
~ 4 hours at + 20°C
~ 2 hours at +30°C

Expenditure
- According to the losses such as spillage and voids, average single layer covers 10-20 m² / L depending on the application surface.
- When diluted 1/7, it covers 60-100 m² / L depending on the absorption of the surface.

Mixing
- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Mixing time is ~2 minutes.

Manner of Application
- Application can be diluted with water by 10-20 %, depending on the surface property.

Equipment to be used and cleaning of equipments
- Roller or whitewash brush is used in practice.
- Tools and equipment should be cleaned with water and thinner. Water Based Transparent Interior and Exterior Primer can only be mechanically cleaned from the surface after drying and hardening.

RECOMMENDATIONS OF SECURITY
Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Molumer for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
- **Color:** White • **pH:** 8 ± 1 • **Density:** 1,62 ± 0,05 • **Viscosity:** 6000 ± 2000 • **Packaging:** 1 kg - 3,5 kg - 10 kg - 20 kg plastic bucket
- **Storing and Lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 4 pieces on top of each other, protecting it from direct sunlight and frost. If the complete product is not available, the bucket cover should be closed tightly and the product should not be allowed to air up next usage. Storage life is 2 years from production date.

Universal Silicone Primer
Indoor-Outdoor Facades

UNIVERSAL SILICONE PRIMER INDOOR-OUTDOOR FACADES

Definition
Water based, silicone additive, styrene acrylic copolymer binder, mat interior and exterior facade primer.

Areas of Use
•It is used as primer in building materials such as wall, concrete, brick, betopan, aerated concrete and in all parts of the buildings.

Specifications
- Matt appearance
- High closure ability
- Reduces paint consumption and ensures that the finish coat adheres well to the surface
- Extends the life of the paint

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, and spatula can be used according to the cleanliness required on the surface.
- Not to be applied to wet surface.

Conditions of Applications
Temperature of surface and Environment Minimum + 5˚C Maximum + 35˚C

Waiting Period between Layers ~ 8 hours at +10˚C
~ 4 hours at + 20˚C
~ 2 hours at +30˚C

Expenditure
According to losses such as spillage and voids with 1 lt paint 12-16 m2 and with 1 kg paint 10-14 m2 can be covered depending on the application surface.(for single layer 28 ± mic dry film)

Mixing
- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Mixing time is ~2 minutes.

Manner of Application
- The application can be diluted with water by 10-15 % according to the surface property.

Equipment to be used and cleaning of equipments
- Roller or whitewash brush is used in practice.
- Tools and equipment should be cleaned with water and thinner. After drying and hardening, it can only be mechanically cleaned from the surface.

RECOMMENDATIONS OF SECURITY
Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Molumer for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
- **Color:** White • **pH:** 8 ± 1 • **Density:** 1,62 ± 0,05 • **Viscosity:** 6000 ± 2000 • **Packaging:** 3,5 kg - 10 kg - 20 kg plastic bucket
- **Storing and Lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 4 pieces on top of each other, protecting it from direct sunlight and frost. If the complete product is not available, the bucket cover should be closed tightly and the product should not be allowed to air up next usage. Storage life is 2 years from production date.

POOL PAINT

Pool Paint

Definition
Acrylic based water based colorful, waterproofing decorative paint.

Areas of Use
- In natural swimming pools
- In ornamental pools
- In thermal pools (up to a maximum of 70 ° C)
- In fish breeding pools
- Drinking water reservoirs
- In ponds
- Dams
- In water channels
- Can be used in water tanks.

Specifications
- Insoluble in water.
- There is no harmful effect on health.
- Has the ability to adhere and diffuse on the surface.
- Resistant to alkali and chlorine.
- It is elastic.
- Resistant to UV rays.
- Resistant to algae, fungus and bacteria.
- In swimming pools, the pool chemicals used in the pool water can affect the color.

Reference Standards
TS EN 14891
Water-impermeability product which is applied in dispersion based liquid state and has crack bridging ability at normal temperature
TYPE: DM

APPLICATION PROCEDURE AND INSTRUCTIONS
Preparation of Surface
- Everything on the surface should be cleaned of dirt, dust, grease, weak and volatile particles, shields, swollen old applications, cement grout, etc. before application.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- The surface should be leveled to obtain a primed or solid surface.
- Surface repairs, filling gaps and pits should be done with Repair-Protection Mortar.
- Not to be applied to wet surface. It can be applied on moist surface.

Conditions of Application
Protect the newly applied material from freezing and rain. It should be applied after waiting for at least 21 days in new screed. However, it can be applied after 10 days in the screeds taken with the Molumer Concrete Additatives.

Temperature of Surface and Environment should be Minimum + 5 ° C Maximum + 35 ° C

Waiting Period between Layers
~ 8 hours at +10°C
~ 4 hours at +20°C
~ 2 hours at +30°C

Expenditure
The consumption varies according to the surface condition, application thickness, loss and voids.

Expenditure in First Layer : ~ 200 gr/m²
Expenditure in Second Layer : ~ 200 gr/m²

Mixing

- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Continue mixing until the non-lumpy mixture is obtained.
- Mixing time is ~ 5 minutes.

Manner of Application

- It is applied by spreading directly on cement additive applied water proofed meshed surfaces.

Equipment to be used and cleaning of equipment

- Applied with a whitener brush or roller.
- Tools and equipment should be cleaned with water and thinner. Molumer Pool Paint can only be mechanically cleaned from the surface after drying and curing.

RECOMMENDATIONS OF SECURITY

Material mixture should be made with mask in open area. Closed-circuit practitioners must provide air circulation. Work clothes, protective gloves and goggles should be used during the application, in accordance with the Occupational Health and Safety Rules. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Triyo for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION

- **Color:** Blue
- **pH:** 9 ± 1
- **Density:** 1.32 ± 0,05 kg / lt
- **Viscosity:** 12,000 ± 4,000 cps
- **Packaging:** 20 kg plastic barrel
- **Storing and Lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 4 units on top of each other, protecting it from direct sunlight and frost. If the complete product is not used, the bucket cover should be closed tightly and the product should not be allowed to air up to next usage. Storage life is 12 months from production date.

Water Based Impregnation Transparent Wood Paint (Matte & Glossy)

WOOD PAINT

Definition
Elastomeric, acrylic based copolymer and water based special wood paint which is impregnated on wood surface by its capillary feature.

Areas of Use
Used on all kinds of wooden surfaces.

Specifications
- Can be diluted with water.
- Has high elasticity and adherence ability.
- Excellent durability against outdoor conditions.
- It is a non-dripping structure.
- Provides protection against biological pests through a fortified formula against blue mushrooms, molds and moss.

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications, and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- Not to be applied to wet surface.
- Protect the newly applied material from freezing and rain. Drying periods between coats may vary with relative humidity.

Temperature of Surface and Environment should be
Minimum +5°C Maximum +35°C

Waiting Period between Layers ~ 24 hours at +10°C
~ 12 hours at + 20°C
~ 6 hours at +30°C

Expenditure
The consumption varies according to the surface condition, application thickness, loss and voids.
A third coat may be applied if necessary.
Expenditure in First Layer : ~ 250 gr/m²
Expenditure in Second Layer : ~ 250 gr/m²

Mixing
- Mix in a homogeneous mixture with a mechanical mixer at low speed (max 500 rpm).
- Mixing time is ~ 5 minutes.

Manner of Application
- Check that the surface is completely dry before applying between layers.
- Apply the second layer in the opposite direction of the first layer.

Equipment to be used and cleaning of equipment
- Compressor and whitener brush is used in practice.
- Tools and equipment should be cleaned with water and thinner. Molumer Wood Paints can only be mechanically cleaned from the surface after drying and hardening.

RECOMMENDATIONS OF SECURITY
Material mixture should be made with open area and mask. Air circulation should be provided in closed area applications. Work clothes, protective gloves and goggles should be used during the application, in accordance with The Occupational Health and Safety Rules.
In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. Store in a well-ventilated place. Please contact Molumer for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
- **Color:** Every color can be produced. • **pH:** 8 ± 1 • **Density:** 1.20 ± 0.03 kg / l • **Viscosity:** 8000 ± 3000 cps • **Packaging:** 18 kg plastic bucket
- **Storing and Lifetime:** In a cool and dry environment, it should be stacked and stored as a maximum of 4 pieces on top of each other, protecting it from direct sunlight and frost. If the complete product is not available, the bucket cover should be closed tightly and the product should not be allowed to air up to next usage. Storage life is 12 months from production date.

Water Based Plywood Paint

PLYWOOD PAINT

Definition
High adhesion, copolymer, fully elastic acrylic based waterproofing plywood paint.

Areas of Use
• Used on cut surfaces of plywood and wood materials.

Specifications
• Fully elastic
• Has surface adhesion and diffusion ability
• Intensifies the water vapor and provides diffusion control
• Ready to apply directly

Reference Standards
TS EN 14891. The reaction is a resin-based liquid impermeability product with crack bridging capability at normal temperature. TYPE: RM

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface
• Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications and cement grout should be cleaned.
• Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
• Do not apply to wet and damp surfaces.

Temperature of Surface and Environment should be
Minimum +5°C Maximum +35°C

Waiting Period between Layers
~8 hours at +10°C
~ 4 hours at + 20°C
~ 2 hours at +30°C

Conditions of Application
Protect the newly applied material from freezing and rain.

Expenditure
The consumption varies according to the surface condition, application thickness, loss and voids. It is envisaged to apply at least 2 coats.

Mixing
• It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer. • Mixing time is ~ 2 minutes.

Manner of Application
• Directly applied on cleaned wood or plywood surface

Equipment to be used and cleaning of equipment
• Roller or brush is used in practice.
• Tools and equipment should be cleaned with water and thinner. Molumer Plywood can only be mechanically cleaned from the surface after drying and hardening.

RECOMMENDATIONS OF SECURITY
Material mixture should be made with open area and mask. Air circulation should be provided in closed area applications. Work clothes, protective gloves and goggles should be used during the application, in accordance with The Occupational Health and Safety Rules.
In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. Store in a well-ventilated place. Please contact Molumer for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION
• **Color:** Brown liquid. • **pH:** 9 ± 1 • **Density:** 1.30 ± 0.03 kg / l • **Viscosity:** 6000 ± 2000 cps • **Packaging:** 5 kg plastic bucket
• **Storing and Lifetime:** It should be stacked and stored in maximum 3 pieces in a cool and dry environment, protecting it from direct sunlight and frost. If the complete product is not used, the bucket cover should be closed tightly and the product should not be allowed to air up to next usage. Storage life is 12 months from production date.

Water Based Heat Insulated Trapezoidal Sheet and Construction Painting

603

Definition

Polyester acrylic based, copolymer elastomeric heat insulated water based paint.

Areas of Use

- Protection of old - new trapezoid sheet surfaces against corrosion
- Protection against corrosion on construction surfaces such as steel, iron, aluminum
- On surfaces such as concrete, screed, Eternit
- At Food production facilities that can be washed with water, moisture and heat protection, textile and flour facilities for dust-free walls, food production areas, slaughterhouse walls, on the inner walls of dry pulses warehouse storages
- Prevention of fast heat transfer on the condensing concrete and sheet metal surfaces
- On the farm roofs of chicken, chick, bovine are used for heat isolation in summer.

Specifications

- The layer which formed after drying has the ability to expand.
- Provides 25% - 30% thermal insulation when the value of heat absorption and conductivity in summer is very low.
- Has the ability to adhere and diffuse on the surface.
- Intensifies the water vapor and provides diffusion control.

Reference Standards

TS EN 14891

The reaction is a resin-based liquid impermeability product with crack bridging capability at normal temperature
TYPE: RM

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface

- Before application, any dirt, dust, oil, weak and volatile particles on the surface, shields, swollen old applications and cement grout should be cleaned.
- Tools such as vacuum cleaner, brush, spatula can be used according to the cleanliness required on the surface.
- The surface should be leveled to obtain a primed or solid surface.
- Surface repairs, filling of cavities and pits should be done with Repair-Protection Mortar
- Do not apply to wet and damp surfaces.

Conditions of Application

Temperature of Surface and Environment should be Minimum + 5 ° C Maximum + 35 ° C

Waiting Period between Layers

~ 12 hours at +10°C
~ 5 hours at +20°C
~ 2 hours at +30°C

Expenditure

The consumption varies according to the surface condition, application thickness, loss and voids.

For 18 kg	Metal Surface	Concrete Surface
First Layer	~100 gr/m²	~150-200 gr/m²
Second Layer	~100 gr/m²	~150-200 gr/m²

Mixing

- It may be mixed in the package with a low speed (max 500 rpm) mechanical mixer.
- Mixing time is ~ 2 minutes.

Manner of Application

- Molumer 603 is applied directly on surfaces such as new trapeze sheet, steel, iron, aluminum sheets
- Moldy and rusty surfaces like sheet, trapeze etc. are primed with Molumer PL03, after the surface has dried, Molumer 603 is applied.

Equipment to be used and cleaning of equipment

- In application, compressor or whitener brush is used.
- Tools and equipment should be cleaned with water and thinner. Molumer 603 can only be mechanically cleaned from the surface after drying and curing.

RECOMMENDATIONS OF SECURITY

Work clothes, protective gloves, masks and goggles appropriate to occupational health and safety regulations must be used during the application. In case of eyewash and skin splash, immediately wash with clean water. If swallowed, seek medical advice immediately. It should be stored at places where children cannot reach. Please contact Molumer for Material Safety Data Sheet (MSDS) for products.

TECHNICAL INFORMATION

- **Color:** White
- **pH:** 8.0 ± 1.0
- **Density:** 1.24 ± 0,05 kg / lt
- **Viscosity:** 8,000 ± 3,000 cps
- **Packaging:** 18 kg plastic bucket
- **Storing and Lifetime:** In a cool and dry environment, it should be stored and stacked as maximum 2 pieces in direct sunlight and frost protection. If the complete product is not available, the bucket cover should be closed tightly and the product should not be air up to next usage. Storage life is 12 months from production date.

Thermal Interior Wall Paint

THERMAL INTERIOR WALL PAINT

Definition

This is an acrylic copolymer type, water based interior wall paint containing hollow vacuum glass and ceramic beads manufactured with advanced nanotechnology.

Areas of Use

- Paint primer applied interior walls
- On to the old water-based paint
- Traditional plaster and satin plaster surfaces
- Drywall and sheetrock systems
- Concrete, exposed concrete and lean concrete.

Specifications

- The paint layer formed after drying has expansion ability.
- It is antibacterial and prevents formation of moisture, humidity and mold.
- Provides diffusion control by condensing water vapor.
- Reflects the radiant heat produced by air conditioner, natural gas, heater etc. in the inner structure.
- Very low application thickness at 0.5mm-7mm.
- Prevents potential condensation on the surface it is applied.
- Blocks noise and vibration.
- Provides energy efficiency.
- Low thermal conductivity, water repellent, high adherence and good mantling properties.

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface

- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- The surfaces such as concrete, wooden, lime plastered etc. should be primed before application.
- Plaster, putty priming and similar subsurface application on the painting surface must be completed beforehand.
- Thermal Interior Paint should not be applied on wet and humid surfaces.
- Thermal Interior Paint can be directly applied on cement added surfaces with complete waterproofing.
- Thermal Interior Paint can be directly applied on old paint applications as long as the surface is smooth.

Conditions of Application

Temperature of Surface and Environment should be Minimum + 5 ° C Maximum + 35 ° C

Waiting Period between Layers

~ 8 hours at +10°C
~ 4 hours at +20°C
~ 2 hours at +30°C

Expenditure

Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity. It should be applied as at least 1 mm.

Expenditure in first layer	~0,200 - 0,250 kg/m²
Expenditure in second layer	~0,200 - 0,250 kg/m²
Expenditure in third layer	~0,200 - 0,250 kg/m²

Mixing

- The paint can be mixed with a low rate (max. 150 rpm) mechanical mixer inside its container. Mixing at a higher rate can cause mechanical damage on the hollow glass and ceramic beads and result in impairment of the product.
- Mixing time is approximately 2 minutes.
- Before applying the product and after taking any breaks the product should be mixed against the possibility of settling until it reaches a homogenous, cream-like consistency. Use wide motions, diving to the bottom of the bucket and moving around in circles in various angles to mix all parts equally.
- Diluting Thermal Paint with water is NOT recommended. If necessary due to storage and long-term settling, use maximum 100 ml (0.5 glass) of water per 15 Lt to dilute.

Manner of Application

- In case of application with an epoxy roll, wet the roll before first use and remove excess water. In case the roll gets dry during a break repeat the same wetting procedure.
- When applying paint layers dip the entire roll into the bucket, and then shake the excess into the bucket. Do not scrape the roll on a roll grill.
- When applying the first layer of top row, apply a single layer at the width of the roll, moving the roll about 60 cm up and down the wall. Then re-dip the roll and continue application on empty surfaces. When the width reaches approx. 1 metre, roll over the entire painted area to remove joining lines.
- For bottom row, repeat the steps followed for the top row.
- After completing both top row and bottom row, gently move the roll up and down over both rows to merge the two rows and remove joining lines.
- In case of application with airless high pressure machine (Graco EH-200, Graco Mark-V, Titan) adjust pressure as low as possible, between 40 to 100 bars. Use HDA 427,431,525,527 nozzle heads for spraying. Use 7.5 to max. 15 metre of 3/4 inch or 1 inch hose with TexSprey spray guns at 40 to 80 bars of pressure, with a 30 mesh main filter and by removing the internal filter. Spaying at higher pressures can cause mechanical damage on the hollow glass and ceramic beads and result in impairment of the product.

Equipment to be used and cleaning of equipment

- Epoxy roll and airless high pressure machine are used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Thermal Interior Paint can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** White color - Requested color
- **pH:** 9,0 ± 1,0
- **Density:** 0,70 ± 0,04 kg/l
- **Viscosity:** 6000±2000 cps
- **Packaging:** 18 liter , 9 liter bucket
- **Storing and Lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 4 pieces in maximum. In case that it cannot be used the whole product, lid of bucket should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

Thermal Exterior Wall Paint

THERMAL EXTERIOR WALL PAINT

Definition

This is an acrylic copolymer type, water based interior wall paint containing hollow vacuum glass and ceramic beads manufactured with advanced nanotechnology.

Areas of Use

- Paint primer applied exterior walls
- On old water-based paint
- Traditional plaster and satin plaster surfaces
- Drywall and sheetrock systems
- Concrete, exposed concrete and aerated concrete.

Specifications

- The paint layer formed after drying has expansion ability.
- High resistance against UV-lights.
- It is antibacterial and prevents formation of moisture, humidity and mold.
- Provides diffusion control by condensing water vapor.
- Reflects the radiant heat carried by solar beams.
- Very low application thickness at 0.5mm-7mm.
- Prevents potential condensation on the surface it is applied.
- Blocks noise and vibration.
- Provides energy efficiency.
- Low thermal conductivity, water repellent, high adherence and good mantling properties.

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface

- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- The surfaces such as concrete, wooden, lime plastered etc. should be primed before application.
- Plaster, putty priming and similar subsurface application on the painting surface must be completed beforehand.
- Thermal Exterior Paint should not be applied on wet and humid surfaces.
- Thermal Exterior Paint can be directly applied on cement added surfaces with complete waterproofing.
- Thermal Exterior Paint can be directly applied on old paint applications as long as the surface is smooth.

Conditions of Application

Temperature of Surface and Environment should be Minimum + 5 ° C Maximum + 35 ° C

Waiting Period between Layers

~ 8 hours at +10°C
~ 4 hours at +20°C
~ 2 hours at +30°C

Expenditure

Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity. It should be applied as at least 1 mm.

Expenditure in first layer	~0,300 - 0,450 kg/m²
Expenditure in second layer	~0,300 - 0,450 kg/m²
Expenditure in third layer	~0,300 - 0,450 kg/m²

Mixing

- The paint can be mixed with a low rate (max. 150 rpm) mechanical mixer inside its container. Mixing at a higher rate can cause mechanical damage on the hollow glass and ceramic beads and result in impairment of the product.
- Mixing time is approximately 2 minutes.
- Before applying the product and after taking any breaks the product should be mixed against the possibility of settling until it reaches a homogenous, cream-like consistency. Use wide motions, diving to the bottom of the bucket and moving around in circles in various angles to mix all parts equally.
- Diluting Thermal with water is NOT recommended. If necessary due to storage and long-term settling, use maximum 100 ml (0.5 glass) of water per 15 Lt to dilute.

Manner of Application

- In case of application with an epoxy roll, wet the roll before first use and remove excess water. In case the roll gets dry during a break repeat the same wetting procedure.
- When applying paint layers dip the entire roll into the bucket, and then shake the excess into the bucket. Do not scrape the roll on a roll grill.
- When applying the first layer of top row, apply a single layer at the width of the roll, moving the roll about 60 cm up and down the wall. Then re-dip the roll and continue application on empty surfaces. When the width reaches approx. 1 metre, roll over the entire painted area to remove joining lines.
- For bottom row, repeat the steps followed for the top row.
- After completing both top row and bottom row, gently move the roll up and down over both rows to merge the two rows and remove joining lines.
- In case of application with airless high pressure machine (Graco EH-200, Graco Mark-V, Titan) adjust pressure as low as possible, between 40 to 100 bars. Use HDA 427,431,525,527 nozzle heads for spraying. Use 7.5 to max. 15 metre of 3/4 inch or 1 inch hose with TexSprey spray guns at 40 to 80 bars of pressure, with a 30 mesh main filter and by removing the internal filter. Spaying at higher pressures can cause mechanical damage on the hollow glass and ceramic beads and result in impairment of the product.

Equipment to be used and cleaning of equipment

- Roll and airless high pressure machine are used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Thermal Exterior Paint can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** White color - Requested color
- **pH:** 9,0 ± 1,0
- **Density:** 0,98 ± 0,04 kg/l
- **Viscosity:** 7000±3000 cps
- **Packaging:** 18 liter, 9 liter bucket
- **Storing and Lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 4 pieces in maximum. In case that it cannot be used the whole product, lid of bucket should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

Thermal Ceiling Paint

THERMAL CEILING PAINT

Definition

This is an acrylic copolymer type, water based ceiling wall paint containing hollow vacuum glass and ceramic beads manufactured with advanced nanotechnology.

Areas of Use

- Paint primer applied ceiling walls
- On old water-based ceiling paint
- Traditional plaster and satin plaster surfaces
- Drywall and sheetrock systems
- Concrete, exposed concrete and aerated concrete.

Specifications

- The paint layer formed after drying has expansion ability.
- It is antibacterial and prevents formation of moisture, humidity and mold.
- Provides diffusion control by condensing water vapor.
- Reflects the radiant heat produced by air conditioner, natural gas, heater etc. in the inner structure.
- Very low application thickness at 0.5mm-7mm.
- Prevents potential condensation on the surface it is applied.
- Blocks noise and vibration.
- Provides energy efficiency.
- Low thermal conductivity, water repellent, high adherence and good mantling properties.

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface

- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- The surfaces such as concrete, wooden, lime plastered etc. should be primed before application.
- Plaster, putty priming and similar subsurface application on the painting surface must be completed beforehand.
- Thermal Ceiling Paint should not be applied on wet and humid surfaces.
- Thermal Ceiling Paint can be directly applied on cement added surfaces with complete waterproofing.
- Thermal Ceiling Paint can be directly applied on old paint applications as long as the surface is smooth.

Conditions of Application

Temperature of Surface and Environment should be Minimum + 5 ° C Maximum + 35 ° C

Waiting Period between Layers

~ 8 hours at +10°C
~ 4 hours at +20°C
~ 2 hours at +30°C

Expenditure

Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity. It should be applied as at least 1 mm.

Expenditure in first layer	~0,200 - 0,250 kg/m²
Expenditure in second layer	~0,200 - 0,250 kg/m²
Expenditure in third layer	~0,200 - 0,250 kg/m²

Mixing

- The paint can be mixed with a low rate (max. 150 rpm) mechanical mixer inside its container. Mixing at a higher rate can cause mechanical damage on the hollow glass and ceramic beads and result in impairment of the product.
- Mixing time is approximately 2 minutes.
- Before applying the product and after taking any breaks the product should be mixed against the possibility of settling until it reaches a homogenous, cream-like consistency. Use wide motions, diving to the bottom of the bucket and moving around in circles in various angles to mix all parts equally.
- Diluting Thermal Paint with water is NOT recommended. If necessary due to storage and long-term settling, use maximum 100 ml (0.5 glass) of water per 15 Lt to dilute.

Manner of Application

- In case of application with a roll, wet the roll before first use and remove excess water. In case the roll gets dry during a break repeat the same wetting procedure.
- When applying paint layers dip the entire roll into the bucket, and then shake the excess into the bucket. Do not scrape the roll on a roll grill.
- When applying the first layer of top row, apply a single layer at the width of the roll, moving the roll about 60 cm up and down the wall. Then re-dip the roll and continue application on empty surfaces. When the width reaches approx. 1 metre, roll over the entire painted area to remove joining lines.
- For bottom row, repeat the steps followed for the top row.
- After completing both top row and bottom row, gently move the roll up and down over both rows to merge the two rows and remove joining lines.
- In case of application with airless high pressure machine (Graco EH-200, Graco Mark-V, Titan) adjust pressure as low as possible, between 40 to 100 bars. Use HDA 427,431,525,527 nozzle heads for spraying. Use 7.5 to max. 15 metre of 3/4 inch or 1 inch hose with TexSprey spray guns at 40 to 80 bars of pressure, with a 30 mesh main filter and by removing the internal filter. Spaying at higher pressures can cause mechanical damage on the hollow glass and ceramic beads and result in impairment of the product.

Equipment to be used and cleaning of equipment

- Roll and airless high pressure machine are used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Thermal Ceiling Paint can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** White color
- **pH:** 9,0 ± 1,0
- **Density:** 0,70 ± 0,04 kg/l
- **Viscosity:** 9000±4000 cps
- **Packaging:** 18 liter, 9 liter bucket
- **Storing and Lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 4 pieces in maximum. In case that it cannot be used the whole product, lid of bucket should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

Thermal Roof Coating Paint

THERMAL ROOF COATING PAINT

Definition

This is an acrylic copolymer type, water based roof coating paint containing hollow vacuum glass and ceramic beads manufactured with advanced nanotechnology.

Areas of Use

- Non-walking reinforced concrete and screed terraces
- Hidden roofs and rain gutters
- Non-walking terrace-roof surfaces such as ceramic, marble, tile coated
- Non-walking terraces with old bitumen -asphalt and acrylic based insulated surfaces
- Sheet, Eternit, PVC, wooden surfaces
- Metal mosque domes
- Preventing rapid heat transfer of sweating concrete and steel surfaces
- Roofs of chickens, chicks, cattle ranches

Specifications

- The paint layer formed after drying has expansion ability.
- High resistance against UV-lights.
- It is antibacterial and prevents formation of moisture, humidity and mold.
- Provides diffusion control by condensing water vapor.
- Reflects the radiant heat carried by solar beams.
- Very low application thickness at 0.5mm-7mm.
- Prevents potential condensation on the surface it is applied.
- Blocks Noise and Vibration.
- Provides energy efficiency.
- Low thermal conductivity, water repellent, high adherence and good mantling properties.

APPLICATION PROCEDURE AND INSTRUCTIONS

Preparation of Surface

- In should be cleaned all remnants such as every dirt, dust, oil, poor and loose particles, rising and swelling old applications, paint of old coatings, sherbet of cement etc. on surface before starting application.
- Tools such as sweeper, brush, spatula etc. can be used according to necessary cleaning for surface.
- The surfaces such as concrete, wooden, lime plastered etc. should be primed before application.
- Plaster, putty priming and similar subsurface application on the painting surface must be completed beforehand.
- Thermal Roof Coating Paint should not be applied on wet and humid surfaces.
- Thermal Roof Coating Paint can be directly applied on cement added surfaces with complete waterproofing.
- Thermal Roof Coating Paint can be directly applied on old paint applications as long as the surface is smooth.

Conditions of Application

Temperature of Surface and Environment should be Minimum + 5 ° C Maximum + 35 ° C

Waiting Period between Layers

~ 8 hours at +10°C
~ 4 hours at +20°C
~ 2 hours at +30°C

Expenditure

Expenditure changes depending on the surface condition, application thickness, losses such as shedding and cavity. It should be applied as at least 1 mm.

Expenditure in first layer	~0,300 - 0,450 kg/m²
Expenditure in second layer	~0,300 - 0,450 kg/m²
Expenditure in third layer	~0,300 - 0,450 kg/m²

Mixing

- The paint can be mixed with a low rate (max. 150 rpm) mechanical mixer inside its container. Mixing at a higher rate can cause mechanical damage on the hollow glass and ceramic beads and result in impairment of the product.
- Mixing time is approximately 2 minutes.
- Before applying the product and after taking any breaks the product should be mixed against the possibility of settling until it reaches a homogenous, cream-like consistency. Use wide motions, diving to the bottom of the bucket and moving around in circles in various angles to mix all parts equally.
- Diluting Thermal with water is NOT recommended. If necessary due to storage and long-term settling, use maximum 100 ml (0.5 glass) of water per 15 Lt to dilute.

Manner of Application

- In case of application with an Epoxy roll, wet the roll before first use and remove excess water. In case the roll gets dry during a break repeat the same wetting procedure.
- When applying paint layers dip the entire roll into the bucket, and then shake the excess into the bucket. Do not scrape the roll on a roll grill.
- When applying the first layer of top row, apply a single layer at the width of the roll, moving the roll about 60 cm up and down the wall. Then re-dip the roll and continue application on empty surfaces. When the width reaches approx. 1 metre, roll over the entire painted area to remove joining lines.
- For bottom row, repeat the steps followed for the top row.
- After completing both top row and bottom row, gently move the roll up and down over both rows to merge the two rows and remove joining lines.
- In case of application with airless high pressure machine (Graco EH-200, Graco Mark-V, Titan) adjust pressure as low as possible, between 40 to 100 bars. Use HDA 427,431,525,527 nozzle heads for spraying. Use 7.5 to max. 15 metre of 3/4 inch or 1 inch hose with TexSprey spray guns at 40 to 80 bars of pressure, with a 30 mesh main filter and by removing the internal filter. Spaying at higher pressures can cause mechanical damage on the hollow glass and ceramic beads and result in impairment of the product.

Equipment to be used and cleaning of equipment

- Roll and airless high pressure machine are used for application.
- Used tools and equipment should be cleaned by means of water and thinner. Thermal Roof Coating can only be cleaned from surface mechanically after drying and hardening.

RECOMMENDATIONS OF SECURITY

During application, it should be used work clothes, protective gloves and eyeglasses in accordance with regulations of occupational health and safety. In event of splattering to eyes and skin, clean it with clean water immediately. In event of swallowing, it should be applied to physician. It should be stored in places where children cannot reach. Apply to Molumer for material security form (MSDS).

TECHNICAL INFORMATION

- **Color:** White color-Requested color
- **pH:** 8,0 ± 1,0
- **Density:** 0,98 ± 0,04 kg/l
- **Viscosity:** 6000±3000 cps
- **Packaging:** 18 liter, 9 liter bucket
- **Storing and Lifetime:** In cool and dry environment, it should be stored by protecting from sunlight and frost and stacking as 4 pieces in maximum. In case that it cannot be used the whole product, lid of bucket should be closed tightly for next usage and it should be prevented that the product gets air. Storing lifetime is 12 months as of producing date.

Honest

Traditional

Innovative

Respectful to Nature

Modest

Compatible

MOLÜMER

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