

ARMOFLOOR SLP

High Performance Self Levelling Polyurethane Topping

Description:

ARMOFLOOR SLP is a solvent free, high performance, polyurethane based self-leveling topping that provides a floor with seamless, water-tight, hygienic, highly chemical and abrasion resistant and with attractive monolithic finish. It composed of tinted polyurethane base, hardener and selected graded filler.

ARMOFLOOR SLP is designed to provide hygienic, monolithic flooring with features of flexibility to accommodate temperature changes and with decorative glossy finish.

ARMOFLOOR SLP is presented in two grades related to the thickness of application required:

ARMOFLOOR SLP 25 for thicknesses from 1.0 mm to 2.5 mm.

ARMOFLOOR SLP 50 for thicknesses from 2.0 mm to 4.0 mm.

Uses:

ARMOFLOOR SLP is utilized as a system at:

- Hygienic facilities such as laboratories and operation rooms.
- Cold storage facilities (vegetables and fruits, poultry, meat).
- Food and poultry processing factories.
- Pharmaceutical production areas.
- Playground for kids in kindergartens and play zones.
- Medical and pharmaceutical storage areas.
- Decorative flooring for seamless colourful floors.

Advantages:

- Smooth, impervious seamless floor, glazed and easy to clean surface.
- Self-smoothing, high build applications.

- Free of solvent, very low VOC, suitable for work in contained areas.
- Durable and low maintenance product.
- High mechanical strength.
- Easy application with a trowel.
- Excellent resistance against chemicals, detergents, oils and fuels.
- Slightly flexible.
- Available in wide range of colours.
- Hygienic. Provides a dense, impervious seamless floor surface which is easily cleaned.

Instructions for Use:

ARMOFLOOR SLP should be applied by specialist contractors who must follow the Product Method Statement.

Surface Preparation:

All surfaces should be sound, clean, dry and free from loose material, efflorescence, laitance, curing compounds, dirt, oil and grease. Concrete floors should be fully cured. Substrates should be totally dry and not likely to suffer from rising dampness. If necessary, suitable damp-proof membranes should be installed to prevent such risk.

Proper surface preparation is essential to ensure maximum bond strength between the substrate and the flooring system is achieved. It is always recommended to prepare the floor utilizing mechanical preparation method: grinding, captive blasting and sand blasting. If the substrate is restricted to access, utilize preparation by handy mechanical tools. Perform repairs to cracks, levelling of floor; fill voids by means of LAVAPOXY Epoxy based repair products. Consult MATEX Technical Department for further advice.

ARMOFLOOR SLP

Apply a rich coat of ARMOPRIME EP100 to the substrate prior to application of the product. The primer can be applied in a spread rate of 4 to 6 m²/Lt. depending on substrate porosity.

Mixing:

Mix the contents of component A (Base) with a low speed mixer for minutes to homogenize the content of the container. Slowly add the contents of part B (Hardener) to Part A container and Mix thoroughly the material with low speed mixer (200-300 RPM) for an interval of 1 minute. Add the content of part C (Filler) to the mixture slowly ensuring continuous mixing for 3 more minutes confirming a homogenous mixture, color consistent and lump free is reached.

Allow the mix to rest for 2-3 minutes prior to application, to allow entrapped air to escape from the mix to prevent pinholes formation at the surface of the finished product. Part mixing of the product components is not acceptable as it will affect both performance and appearance of the finished floor.

Application:

The applicator should ensure that there are sufficient supplies of labor and materials to make the mixing and subsequent application process a continuous one for any given, independent floor area. The mix should be poured onto the primed substrate in a controlled quantity according to the thickness of application verses the area of work. Pour the mix evenly to the floor. Allow ARMOFLOOR SLP to level on the floor. Set the thickness of application to the controlled pin flat aluminum trowel. Double check the exact desired thickness, then spread the materials to the floor evenly using the aluminum adjusted height flat trowel. Allow even spread for the entire work area. Directly apply second batch to the remaining area of the floor in order to prevent fusing marks (control of material quantity and fast preparation of the mix to the requirements of the selected area is a major factor of creating a smooth, leveled floor).

With a spiked roller go over the surface of the product while wet to allow the ARMOFLOOR SLP to release all air entrapped within. Workers should wear spiked shoes at all times while handling the product.

Standards:

ARMOFLOOR SLP conforms to:

- ASTM C 307, C 579, C 580
- ASTM D4541, ASTM D4060,

Packaging:

ARMOFLOOR SLE is available in 15 liter set of three parts (A+B) metallic containers and bag of filler.

TECHNICAL PROPERTIES		
PARAMETER	ARMOFLOOR SLP 25	ARMOFLOOR SLP 50
Color	Standard Matex Flooring Color Chart	
Compressive Strength	57 N / mm ²	62 N / mm ²
Tensile Strength	10 N / mm ²	12 N / mm ²
Flexural Strength @ 3 mm thickness	32 N/mm ²	30 N / mm ²
Volatile Organic Content	< 10 grams / liter	
Density	1.55 Kg/ m ³	1.70 Kg/ m ³
Pot-life time at 25°C	45 minutes	
Open to foot Traffic	12 hours @25°C	
Open to Vehicular Traffic	24 hours @25°C	
Complete Hardening	After 7 days	
Shore D hardness	75	

Storage:

Store in original packing in dry conditions away from direct sunlight and in temperature controlled warehouse.

ARMOFLOOR SLP

Coverage:

ARMOFLOOR SLP achieves coverage of 7.5 square meters per set @ 2 mm thickness of application.

Shelf Life:

ARMOFLOOR SLP can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

Cleaning:

All equipment used should be cleaned before product dries using ARMOSOLVENT.

CHEMICAL RESISTANCE		
Material	Concentration	Resistance
Lactic Acid	10%	Excellent
Citric Acid	10%	Excellent
Sodium Hydroxide	50%	Excellent
Acetic Acid	10%	Excellent
Butanol	-	Excellent
Crude Oil	-	Excellent
Nitric Acid	10%	Excellent
Mineral Oil	10%	Excellent
Ammonia	-	Excellent
Sea Water/Jet Fuel	-	Excellent

Remarks:

- ARMOFLOOR SLP should not be applied at temperatures below 10°C.
- ARMOFLOOR SLP should not be applied to asphalt, weak or friable concrete, PVC tiles or sheet substrates.
- ARMOFLOOR SLP should not be applied if the surface relative humidity is more than 75%.
- All existing expansion or movement joints should be followed through the new floor surface.
- It is strongly recommended to apply ARMOFLOOR SLP by specialist contractor or experienced applicator who must follow the procedures laid down in the product Method Application.
- Uncured material reacts in contact with water. Care should be taken to ensure that water does not come into contact with fresh ARMOFLOOR SLP.

Health and Safety:

- Use goggles and gloves during application. Do not breathe vapor of products. Use only in well ventilated areas.
- Avoid contact with eyes or skin.
- Avoid direct contact with flames and fire.

MATEX Rev.02-0619

This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

