

MONNELI EPOFLOOR SLP25

Self Leveling Polyurethane Floor Topping

Product Description

A solvent free, high performance three component pigmented self-leveling floor topping which provides a surface with excellent resistance to abrasion, chemical attack and other forms of physical aggression.

Designed as self leveling polyurethane for use in concrete floors or steel substrates with thickness from 0.5 mm up to 2.5 mm.

Has high filling ability when applied to concrete floors. Once cure, it provides a watertight seamless coating with uniform colour.

Uses

EPOFLOOR SLP 25 can be applied on mineral based substrates such as:

- Concrete
- Mortar
- Epoxy modified cement mortars

Used as a broadcast floor topping for:

- Warehouses
- Cold storage facilities
- Parking decks and ramps
- Production and storage facilities
- Chemical processing

Used as a self leveling broadcast floor topping for:

- Industrial floors subjected to moderately
- Heavy loading
- Factory workshops
- Production and storage areas

Advantages

- Solvent free
- Excellent adhesion to substrates
- No seams or joints
- Crack bridging
- Flexible and durable
- Easy to clean
- Anti-slip when broadcast
- Excellent abrasion and wear resistance
- Resistant to impact and chemical attack
- Available in a wide range of colors

Instructions for Use

Surface Preparation

Support must be dry, compact, free of dust and other contaminating substances like oil, grease, etc. The humidity should not be greater than 75% at the time of application, and the moisture content of the substrate shall not be more than 5%. The pull-out resistance trial on the concrete screed must give a result non-inferior to 20 N / mm².

The right surface preparation will help to achieve the required adhesion strength between the substrate and the coating.

It is recommending to sand blast the substrate in order to guarantee a clean surface and to create a mechanical key between the substrate and the coating. Repair all the existing expansion joints using EPOMORT HS and be sure to follow the same joints through the new floor. Cracks should be treated using EPOFINISH. Use ARMOFLEX, a fiber glass mesh for moving cracks.

Priming

All surfaces must be treated with PRIMER PU, a solvent based epoxy primer.

The primer should be applied by brush or roller on to the cleaned surface area (particularly hidden surfaces) at a rate of 6-8m²/Liter.

The primer should be left to achieve a tack-free condition for 8-12 hours before applying the floor coating. A second coat of primer may be required if the substrate is excessively porous or use Primer Poxy FF, a solvent free epoxy primer.

Mixing

EPOFLOOR SLP25 is supplied in 3 pre weighed packs (Base, Hardener, graded filler, and colour pack) ready for immediate on site mixing. It is recommended that the kits, not be used partially unless suitable weighing equipment is available at site.

EPOFLOOR SLP25 must be mixed at the moment of use. The base (Component A) should be mixed for two minutes with a heavy duty, slow speed drill fitted with a mixing paddle at low number of turns (200-300 RPM) till obtaining a homogenous mix. Pour the hardener (Component B) into the base mixture and mix for another two minutes. Add the filler (Component C) and mix until uniform consistency is achieved. Scrape the sides and bottom of the container during mixing to ensure homogeneity.

Application

Pour the mixed material onto the primed surface in pools or as a long strip. Using a trowel, pin screed, or notched trowel, spread EPOFLOOR SLP25 to the required thickness. To release entrapped air and assist with the smoothing operation, roll the material within 5 minutes after it is levelled, using spiked roller.

Allow to cure for minimum 18 hours at +25°C for light traffic.

Recommendations

- EPOFLOOR SLP25 should not be applied at temperatures below +10°C and above +35°C
- EPOFLOOR SLP 25 should not be applied to asphalt, weak or friable concrete, PVC tiles or sheet substrates
- Care should be taken to ensure that water does not come into contact with fresh EPOFLOOR SLP25 before full cure.

Technical Data

Properties	Results
Appearance	Liquid coating
Color	See Standard Color Chart
Density at 25°C	1.5-1.6 kg /L
VOC	8.0 g/L
Solid Content	100%
Pot-life time at 25°C	40 minutes
Shore D Hardness	75
Tensile strength (ASTM C 307)	20 N/mm ²
Compressive strength (ASTM C 579)	58 N / mm ²
Flexural strength (ASTM C 580)	32 N/mm ²
Elasticity Module (DIN 53-457)	Approximately 1200 N/mm ²
Chemical Resistance	Resistant to acid, alkalis, fuels, hydraulic oils, and solvents.
Open to foot traffic at 25°C	18 hours
Open to vehicular traffic at 25°C	24 hours
Completely hardened	3-5 days
Service Temperature	-5°C to +80°C

All values are subject to 5-10 % tolerance

Consumption

1 m²/Liter for 1 mm thickness depending on substrate condition

Packaging

EPOFLOOR SLP25 is supplied in 15 Liter Kit

Storage

Keep the product in dry and sheltered place at temperature between 0°C and +35°C. Shelf life is 12 months if stored as recommended.

Health & Safety

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary. In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly. If ingested, obtain medical attention immediately. Do not induce vomiting.

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