

MONNELI EPOFLOOR SLP50

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.

EPOFLOOR SLP50 is designed as self leveling polyurethane for use in concrete floors or steel substrates with thickness from 2.5 mm to 5 mm.

EPOFLOOR SLP50 has high filling ability when applied to concrete floors. Once cure, it provides a watertight seamless coating with uniform colour.

Uses

EPOFLOOR SLP50 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 6-8 m²/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.

Mixing

EPOFLOOR SLP50 must be mixed at the moment of use. The base (Component A) should be mixed for two minutes with a drill 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 SLP50 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.

Cleaning

Tools and equipment should be cleaned with SOLVENTE 10 from Colmef immediately after use. Hardened material should be removed mechanically. Spillages should be absorbed with sand or sawdust and disposed of in accordance with local regulations.

Recommendations

- EPOFLOOR SLP50 should not be applied at temperatures below +10°C and above +35°C.
- EPOFLOOR SLP 50 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 SLP50 before it cures.
- Do not apply with humidity more than 75%.

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)	24 N/mm ²
Compressive strength (ASTM C 579)	62 N / mm ²
Flexural strength (ASTM C 580)	30 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 SLP50 is supplied in 15 Liter Kit

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Storage

Keep in tightly closed containers and in sheltered and dry place with a temperature between +5°C and +35°C. In these conditions it maintains its characteristics unchanged for 12 months.

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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DUBAI
ABU DHABI
KSA
ITALY

P.O. Box 123808 Dubai UAE
P.O. Box 127326 Abu Dhabi, UAE
P.O. Box 335896 Code: 11383 - Riyadh KSA
Z.I. Ponte d'Assi 06024 Gubbio (PG)

T. +971 4 8803488 F. +971 4 8803450
T. +971 2 5511949 F. +971 2 5511749
T. +966 1 2654277 F. +966 1 2654335
T. +39 75 9221297 F. +39 75 9221174

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colmef@colmef.ae

www.colmef-me.com