

MONNELI EPOFLOOR E100

Epoxy Floor Coating

Product Description

A two component solvent based epoxy system suitable for floor coating. It forms smooth, semi-gloss, tough finish that has outstanding resistance to abrasion, chemicals, impact and spillage of solvent, fuel, diesel, oil, diluted acid and alkaline solutions. The product adheres perfectly to a variety of supports like concrete metal, wood, stoneware etc.

Uses

EPOFLOOR E100 is suitable for the following:

- Protection and decoration of interior floors in harsh environments
- Workshops
- Kitchens
- Showrooms
- Car park floors

Advantages

- Chemical resistance
- Wide range of colours
- Durable and low maintenance
- Durable and hygienic finish
- High abrasion and mechanical resistance

Instructions for Use

Surface Preparation

The surface of the concrete shall be sound, clean and uncontaminated.

This preparation shall be such as to leave a sound exposed concrete surface free from dust, loose particles and any deleterious matter. If the concrete surface is defective or has laitance, it must be cut back to a sound base.

Excess laitance deposits are best removed by light mechanical scrubbing, grinding or grit/captive blasting followed by vacuum cleaning to remove dust debris.

Any blowholes, chipping or similar surface imperfections shall be repaired using EPOFINISH C, a solvent free epoxy resin repair mortar. Expansion joints shall be repaired using EPOMORT HS, a high strength solvent free epoxy mortar.

New concrete floors should be allowed to cure for at least 28 days before applying the primer.

Priming

EPOFLOOR E100 can be applied without the need of a primer. However, highly porous must be treated with PRIMER POXY, a solvent based high performance Epoxy primer.

In that case 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 before applying the top coat. A second coat of primer may be required if the substrate is excessively porous.

Mixing

EPOFLOOR E100 is supplied in two pre-weighed packs (Component A – Base and Component B – Hardener) which are ready for immediate in-situ use. Stir in both components before use.

Transfer the entire contents of component B (Hardener) into the component A (Base) can and mix with low speed drill and paddle (200 – 300 rpm) for 2 – 3 minutes till obtaining a mix with uniform consistency. Scrape the sides and bottom of the can during mixing to ensure homogeneity.

Application

Apply two coats of EPOFLOOR E100 with a roller, squeegee or airless spray to the primed tack free surface at a consumption rate of 6-7 m²/Liter.

Each coat will be a minimum of 100 microns thick. The second coat shall be applied after the first coat is completely dry.

The total dry film thickness of the coating shall be a minimum of 200 microns.

For anti-slip flooring, silica sand (with suitable size) can be broadcasted on first coat in order to achieve leatherette like finish.

For heavy traffic areas such as drive lanes, ramps, turn areas, or other areas subjected to high abrasive traffic, apply a third coat of EPOFLOOR E 100.

Cleaning

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

Recommendations

- The product must be handled with caution
- EPOFLOOR E100 should not be applied onto surfaces likely to suffer from rising damp or relative humidity >70%.
- EPOFLOOR E100 should not be applied at temperature below +5°C.
- EPOFLOOR E100 should not be applied to asphalt floors or PVC tiles.

Consumption

6-7 m² / liter depending on substrate porosity

Packaging

EPOFLOOR E100 is available in 4 and 15 Liter kits

Technical Data

Properties	Results
Appearance	Liquid coating
Standard color	Refer Colmef Color Chart
Density at 25°C	1.45 kg / L
Solid content	85%
Pot-life	2 hours at 25°C
Bond strength (ASTM D4541)	2.0 N / mm ² Concrete failure
Abrasion resistance (ASTM D4060)	80 mg/ 1000 cycles
Temperature of application	+5°C to +35°C
Dry at touch	4 hours
Full traffic use	7 days at 25°C
Service temperature	-5°C + 80°C
Recommended DFT (per coat)	100-120μ

All values are subject to 5-10 % tolerance

Storage

Keep the product in tightly closed containers and in dry sheltered place. Shelf is 12 months from the manufacturing date if stored as recommended.

Health & Safety

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary. Ensure adequate ventilation at working place. 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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