

MonniTop E100

Epoxy floor coat

Product Description

MonniTop E100 is 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

- ▶ 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

Usage Instructions

Surface Preparation

The surface of the concrete to be prepared 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 MonniFinsh EC, a solvent free epoxy resin repair mortar. Expansion joints shall be repaired using MonniMort 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

MonniTop E100 can be applied without the need of a primer. However, highly porous concrete or concrete containing micro-silica must be treated with MonniPrime E, 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 5-6 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

MonniTop 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 MonniTop 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 MonniTop E100.

Cleaning

Tools and equipment should be cleaned with Monelli Solvent 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
- ▶ MonniTopP E100 should not be applied onto surfaces likely to suffer from rising damp or relative humidity > 70%
- ▶ MonniTop E100 should not be applied at temperature below +5°C
- ▶ MonniTop E100 should not be applied to asphalt floors or PVC tiles

Technical Data

Category	Typical Values
Appearance	Liquid Coating
Standards Color	Refer Monnelli Color Chart
Density	1.45 kg / L at 25°C
Solid Content	85%
Pot Life	2 hours at 25°C
Bond strength (ASTM F4541)	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

Packaging & Coverage

The product supplied in 4- and 15-Liter kits. Coverage: 6-7 m²/liter depending on substrate porosity.

Shelf Life & 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.

Legal disclaimer

Monneli endeavors to ensure that any advice, recommendations, information it may give, is accurate and correct. It cannot accept any liability either directly or indirectly arising from the use of its products, because it has no direct or continuous control over where or how its products are applied, whether or not in accordance with any advice, specification, recommendation or information given by us. Monneli has the right to change any of the specifications mentioned in the Technical data sheets upon its discretion without prior notification. Hard copies of TDSs are printed once or twice a year, while our technical data sheets are continuously being updated as per R&D improvements and new 3rd party testing; kindly refer to our website for the latest updated TDSs.

VER.1.2019