

# MonniTop SLE 25

## High Performance Self Leveling Epoxy Flooring

### Product Description

MonniTop SLE25 is a two-component solvent free, high performance pigmented self-leveling product. It is designed as self-leveling epoxy for use on concrete floors with thickness from 0.5 mm up to 2.5mm. Once cured, it provides a watertight seamless coating with high abrasion, mechanical and chemical resistance.

### Uses

MonniTop SLE25 is used for industrial flooring where intense transit is used even with rubberized wheels equipment's such as forklifts.

MonniTop SLE25 is the ideal solution for flooring in high abrasion or impact loading situation.

It is used in the following:

- ▶ Laboratories
- ▶ Plant rooms
- ▶ Car park
- ▶ Warehouses
- ▶ Pharmaceutical manufacturing areas

### Advantages

- ▶ Provides high level of filling in a single application
- ▶ Easy application with a towel or spatula
- ▶ Smooth, impervious seamless floor, glazed and easy to clean surface
- ▶ Excellent abrasion and intense transit resistance
- ▶ Excellent resistance against chemical aggression, detergent washing, oils and fuels
- ▶ Eco-friendly - Low VOC
- ▶ Available in a wide range of colors

### Usage Instructions

#### Surface Preparation

##### Concrete Substrates

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 MonniFinish EC, a solvent free epoxy resin repair mortar. Allow the repair material to harden.

Expansion joints shall be repaired using MonniMort HS, a High strength solvent free epoxy mortar.

New concrete or cementitious surfaces should be allowed to cure and have moisture content not exceeding 5%. Old or existing floor should be refurbished mechanically to ensure clear sound substrate.

## Metal Substrates

All metal substrates should be blast cleaned to achieve a minimum of Sa2 ½ standard of roughness, an angular amplitude of at least 75 microns for pedestrian traffic and 100 microns for vehicular traffic. The coating system must be applied over the blasted steel surface immediately. If the standard of the surface falls below Sa2 ½ then the steel must be reblasted.

## Priming

All surfaces treated with MonniTop SLE25 should be primed with MonniPrime FF, a solvent-free high performance Epoxy primer.

Add the contents of the primer in the Hardener can (Part B) into the Base can (Part A) and mix for two minutes until a homogenous mixture is achieved.

Apply one coat of MonniPrime FF onto the dry surface, at a consumption rate of 5-6 m<sup>2</sup>/Liter.

Allow the primer to dry before proceeding with the self levelling application. Do not apply MonniTop SLE25 while the primer is tacky as this will lead to unsightly marks in the finished surface. Highly Porous substrates may require a second primer coat.

## Mixing

MonniTop SLE25 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

Pour the mixed material onto the primed surface in pools or as a long strip. Using a trowel, pin screed, or notched trowel, spread MonniTop SLE25 to the required thickness. To release entrapped air and assist with the smoothing operation, roll the material within 5 minutes after it is leveled, using spiked roller.

Allow to cure for minimum 12 hours at 25°C for light traffic.

## Cleaning

Tools and equipment should be cleaned with Monneli Solvent 10 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

- ▶ MonniTop SLE25 should not be applied at temperatures below +5°C and above +35°C
- ▶ MonniTop SLE25 should not be applied to asphalt, weak or friable concrete, PVC tiles or sheet substrates
- ▶ MonniTop SLE25 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 MonniTop SLE25 by specialist contractor or experienced applicator who must follow the procedures laid down in the product Method Application.

## Technical Data

Category	Typical Values
Appearance	Liquid Coating
Color	Refer to Monneli Color Chart
Density at 25°C	1.5-1.7 kg/L
Pot-life time at 25°C	60 minutes
VOC	8.0 g/L
Solid Content	100%
Tensile strength (ASTM C 307)	10 N / mm <sup>2</sup>
Compressive strength (ASTM C 579)	> 60 N / mm <sup>2</sup>
Flexural strength (ASTM C 580)	>45 N / mm <sup>2</sup>
Bond strength (ASTM D 4541)	>2.5 N / mm <sup>2</sup>
Abrasion Resistance (ASTM D 4060)	150 mg/ 1000 cycles
Open to foot traffic at 25°C	24 hours
Open to vehicular traffic at 25°C	48 hours
Completely hardened	7 days
Service Temperature	-5°C to +80°C

All values are subject to 5-10 % tolerance

## Consumption

1 m<sup>2</sup>/Liter for 1 mm thickness depending on substrate condition

## Packaging

The product supplied in 15-liter kit.

## Shelf Life & Storage

Keep the product in dry and sheltered place at temperature between +5°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.

## Legal disclaimer

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