

MonniTop SLE 50

High Performance Self Leveling Epoxy Flooring

Product Description

MonniTop SLE50 is a solvent free, high performance three component pigmented self leveling product composed of epoxy resin, hardener, and selected silica. MonniTop SLE50 is used for thickness from 2.5 mm to 5 mm. MonniTop SLE50 has high filling ability when applied to concrete floors. Once cured, it provides a watertight seamless coating with high abrasion, mechanical and chemical resistance.

Uses

MonniTop SLE50 is used for industrial flooring where intense transit is used even with rubberized wheels equipment's such as forklifts. MonniTop SLE50 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

Advantages

- ▶ Provides high level of filling in a single Application
- ▶ Easy application with a trowel 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.

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 SLE50 should be primed with MonniPrime FF, a solvent-free high performance Epoxy primer.

Add the content of 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, maintaining the consumption of 150 – 300 g/m² and observing the application intervals indicated in the relative technical data sheet.

Allow Primer to dry before proceeding with the self levelling application. Do not apply MonniTop SLE50 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 SLE50 is supplied in three pre-weighed packs (Component A – Base, Component B – Hardener and Component C- Selected Silica) which are ready for immediate in-situ use.

Pour the hardener (Component B) into the base can (Component A) and mix with low speed drill and paddle (200 – 300 rpm) for 2 – 3 minutes till obtaining a mix with uniform consistency before adding the selected silica (Component C). Scrape the sides and bottom of the can during mixing to ensure that a homogenous mixture is achieved before application.

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 SLE50 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 SLE50 should not be applied at temperatures below +5°C and above +35°C
- ▶ MonniTop SLE50 should not be applied to asphalt, weak or friable concrete, PVC tiles or sheet substrates
- ▶ MonniTop SLE50 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 SLE50 by specialist contractor or experienced applicator who must follow the procedures laid down in the product method statements

Technical Data

Category	Typical Values
Appearance	Liquid Coating
Color	Refer to Monneli Color Chart
Density at 25°C	1.78 kg /L
Pot-life time at 25°C	60 minutes
VOC	7 g/L
Solid Content	100%
Tensile strength (ASTM C 307)	10 N / mm ²
Compressive strength (ASTM C 579)	65 N / mm ²
Flexural strength (ASTM C 580)	35 N / mm ²
Bond strength (ASTM D 4541)	>2.5 N / mm ²
Abrasion Resistance (ASTM D 4060)	160 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

1.0m²/Liter per 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 the temperature between +5°C and +35°C. Shelf life is at least 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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