

### MONNELI EPOFLOOR SLE40

*Self Smoothing Epoxy Based Floor Topping from 3 to 5mm Thickness*

#### Product Description

A multi component high performance self smoothing epoxy flooring system that flows in a light oil like manner to self smoothen to a perfect level. Once cured, the product has excellent abrasion and chemical resistance .

EPOFLOOR SLE40 provides an attractive hard wearing and easily cleanable floor finish. Its use on floors will enhance lighting in the environment due to the product's reflective properties.

#### Uses

EPOFLOOR SLE40 is used for industrial flooring where intense transit is used even with rubberized wheels equipments such as forklifts. EPOFLOOR SLE40 is the ideal solution for flooring in high abrasion or impact loading situation.

It is used in the following:

- Clean rooms and laboratories
- Industrial kitchen and food processing plants
- Vehicle factories and car park
- Warehouses
- Heavy duty applications, turbine rooms, armories and hangars

#### 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

#### Instructions for Use

##### Surface Preparation

###### **The 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 EPOFINISH C, a solvent free epoxy resin repair mortar. Allow the repair material to harden.

Expansion joints shall be repaired using EPOMORT 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.

##### Priming

All surfaces treated with EPOFLOOR SLE40 should be primed with PRIMER POXY 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 PRIMER POXY FF onto the dry surface, maintaining the consumption of 150 - 300 g/m<sup>2</sup> 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 EPOFLOOR SLE40 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**

EPOFLOOR SLE40 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 EPOFLOOR SLE40 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 18 hours at +25°C for light traffic.

## **Cleaning**

Tools and equipment should be cleaned with SOLVENTE 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**

- EPOFLOOR SLE40 should not be applied at temperatures below +5°C and above +35°C
- EPOFLOOR SLE40 should not be applied to asphalt, weak or friable concrete, PVC tiles or sheet substrates
- EPOFLOOR SLE40 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 EPOFLOOR SLE40 by specialist contractor or experienced applicator who must follow the procedures laid down in the product method statements

## **Technical Data**

Properties	Results
Appearance	Liquid coating
Color	Refer to Colmef Color Chart
Solid content	100%
Recommended DFT/coat	2.0 – 4.0mm
Pot-life time at 12°C	115 minutes
Pot-life time at 40°C	25 minutes
Thin film dry time at 12°C	18 hours
Thin film dry time at 40°C	4 hours
Application maximum relative humidity	75%
Tensile strength (ASTM C 307)	20 N / mm <sup>2</sup>
Compressive strength (ASTM C 579)	80 N / mm <sup>2</sup>
Flexural strength (ASTM C 580)	32 N / mm <sup>2</sup>
Bond strength (ASTM D 4541)	>2.0 N / mm <sup>2</sup>
Taber abrasion (ASTM D 4060) CS17 Wheels	30 mg / 1000 cycles
Water absorption (ASTM D413) maximum	0.001
Porosity with no sealer NACE Sand TM-01-74	0
Hardness shore D	80
Impact resistance (ASTM D2794)	10 Joules
Skid resistance (ASTM D2394)	Pass
Open to foot traffic at 25°C	24 hours
Open to vehicular traffic at 25°C	48 hours
Completely hardened	7 days
Service temperature at 25°C	-5°C to +80°C

All values are subject to 5-10 % tolerance

## Consumption

1.0m<sup>2</sup>/Liter per 1 mm thickness depending on substrate condition

## Packaging

The product supplied in 15 liter kit.

## Storage

Keep in tightly closed containers and in sheltered and dry place with a temperature between +5°C and +35°C. Shelf life is 12 months from date of production if stored properly.

## 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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