

SUPERLEVE EP 50

Solvent Free Self-Leveling Epoxy Flooring

Description

SUPERLEVEL EP50 is a three-component solvent free, high performance hygienic self-smoothing epoxy flooring. It is composed of epoxy resin with chemical additives, hardener and selected silica. It is designed to apply in a thickness from 2 mm to 5 mm.

SUPERLEVEL EP50 has high filling ability when applied to concrete floors. Once cured, it provides a watertight seamless coating with high abrasion, mechanical and chemical resistance.

Features & Benefits

- Solvent free, Hygienic.
- Durable and low maintenance cost
- High mechanical strength, with excellent abrasion resistance
- Excellent adhesion to substrate. Bonding strength is greater than cohesive strength of concrete
- 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 resistance against general chemical aggression, detergent washing, oils and fuels.
- Non-toxic, low VOC content.
- Available in a wide range of colours.

Uses

SUPERLEVEL EP50 is used for industrial flooring where an intense transit even with rubberized wheels equipment (as forklifts, cars...etc.) is used. It is used in laboratories, schools, hospitals, commercial areas, plant rooms, car park, warehouses, pharmaceutical manufacturing areas and most type of concrete and steel substrates. **SUPERLEVEL EP50** is the ideal solution for flooring in high abrasion or impact loading situation.

Technical Properties

Appearance	Flowable Resin
Color	Refer to SBI Color Chart
Density	1,750 Kg/m ³ approx.
Pot Life	60 minutes @ 25 °C
Bonding Strength	≥2.5 N/mm ² (greater than concrete)
Final curing	7 days
Solid Content	100%
Service temperature	+5 to +90 °C
Compressive strength	≥65 N/mm ²
Flexural Strength	26 N/mm ²
Tensile Strength	18 N/mm ²
Water Absorption	None
Abrasion resistance	65 mg/1000 cycles
Open to foot traffic	24 hrs @ 25 °C
Chemical resistance	Resistant to most general chemicals

All values are subject to 5-10% tolerance

Standards Compliance

- ASTM D638, D2240, D4541, D4060
- BS EN 13892-8
- BS 6319 Pt. 7

Application Procedures

Surface preparation:

All surfaces should be sound, clean, dry and free from loose and flaking material, efflorescence, laitance, curing compounds, dirt, oil and grease. Suitable preparation using mechanical methods like grinding or blasting in order to provide a suitable clean surface is strongly recommended. All necessary repairs should be made prior to application by using epoxy mortar. Pinholes, cracks and small defects to be repair with EPOREP FINISH epoxy mortar. For any support Contact SBI Technical Department for advice. New concrete floors should have been allowed to cure for at least 21 days (moisture content below 5%) in order to allow all shrinkage movement to take place before applying the floor coating.

All substrates should be primed with TOPSEAL Epoxy Primer before SUPERLEVEL EP 50 application. Apply one coat of TOPSEAL onto the dry surface, maintaining the consumption of 150 - 200 g/m² and observing the application intervals indicated in the relative technical data sheet.

Metal surfaces must be brushed, or sand blasted (to remove all corrosion and mill scale) and then treated with TOPSEAL before the oxidation process begins again.

Mixing Instructions:

SUPERLEVEL EP50 is composed of three components that must be mixed at the time of use. The entire contents of the hardener pack (Part B) should be added to the base first (Component A) and mix together for 2-3min with a drill at low number of turns (200-300 RPM) till obtaining a homogenous mix before adding the filler (Component C), be sure to achieve a homogenous color mixture before application.

Application Instructions:

Pour **SUPERLEVEL EP50** mixture onto the primed substrate and spread to the required thickness using serrated trowel. Immediately after the application, pass a spiked roller onto the surface in order to remove slight trowel marks and free the air bubbles.

Do not dilute the mixture with any type of solvents.

Coverage

Each 1 Ltr of **SUPERLEVEL EP50** will cover 1 sq. meter in 1 mm thickness.

Coverage depends on substrate porosity and profile.

Packaging

SUPERLEVEL EP50 is available in 15 Liters Three-Component Kits.

Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.



SBI products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. All SBI datasheets are updated on a regular basis. It is the user's responsibility to obtain the recent version.

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