

SUPERTOP EP 100

Two-Component Solvent Free Epoxy Floor Coating

Description

SUPERTOP EP100 is a two-component solvent free epoxy floor system consisting of a colored base resin, and hardener. It designed to produce continues seamless floor protection. **SUPERTOP EP100** is suitable for chemical protection coverings of industrial floorings for smooth or profiled finish. It can be used where hygienic and gloss appearance is required. **SUPERTOP EP100** has excellent adhesion on different types of concrete and metal substrates with high impermeable protection, abrasion and wear resistance characteristics.

Features & Benefits

- Excellent bonding to different type of substrates.
- High penetration properties and Hygienic.
- Impermeability to liquids
- Good chemical resistance
- Excellent wear and abrasion resistance
- Durable and easy to apply
- Slip resistance finish.

Uses

SUPERTOP EP 100 is suitable for use in many industrial applications. It can be applied in the following industries:

- Car parking areas.
- Industrial production facilities.
- Engineering workshops
- Loading docks ramps.
- Aircraft hangers.
- Utilities rooms
- Pharmaceutical & Medical laboratories
- Food & beverage Factories
- General floor protections

Technical Properties

Appearance	Liquid Resin
Color	Refer to SBI Color Chart
Density	1,450 Kg/m ³ approx.
Pot Life	45 minutes @ 25 °C
Bonding Strength	≥2.2 N/mm ²

Final cure	7 days
Solid Content	100%
Heat Resistance	5 to +90 °C
Compressive strength	≥80 N/mm ²
Flexural Strength	≥42 N/mm ²
Tensile Strength	22 N/mm ²
Water Absorption	None
Abrasion Resistance	≤65 mg/ 1000 cycles
Open to light traffic	3 days @ 25 °C

All values are subject to 5-10% tolerance

Standards Compliance

- ASTM C501, C579, C307, C580
- ASTM D4060, D4541
- EN ISO 2812-1
- BS 6319 Pt. 3& 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.

Concrete in good conditions does not require priming but in some cases for high porous surfaces, substrate can be sealed with TOPSEAL epoxy primer.

Metallic surfaces must be brushed or sand blasted (in order to remove all corrosion and mill scale).

Mixing Instructions:

SUPERTOP EP 100 is composed of two components that must be mixed at the moment of use. The entire contents of the hardener Pack (Component B) should be added to the colored base (Component A) and mix together for 3-5 minutes with a drill at low number of turns (200-300 RPM) till obtaining a homogenous mix.

Application Instructions:

Using roller brush or airless spray unit apply **SUPERTOP EP100** in various application thickness from 200-250 microns per coat. Before applying the second coat make sure that the first one is completely dry.

If slip resistance finish is required, spray the silica sand with the required sieve size (Quartz) onto the first coat while it is wet, apply in a rate of 0.6-1 kg/m². Once cured, remove excess sand and apply the final coat.

A system of primer and two coats of **SUPERTOP EP100** would give a total dry thickness of 500-600 microns (without anti-slip filler) with silica quarts thickness depends on silica size.

Chemical Resistance:

Material	Resistance
Lactic Acid 10%	Resistant
Citric Acid 10%	Resistant
Hydrochloric Acid 10%	Resistant
Sodium Hydroxide 50%	Resistant
Acetic Acid 10%	Resistant
Butanol	Resistant
Crude Oil	Resistant
Nitric Acid 10%	Resistant
Sulfuric Acid 20%	Resistant
Mineral Oil	Resistant
Ammonia 10%	Resistant
Sea Water / Jet Fuel/ Sugar sol.	Resistant

Coverage

Smooth Finish: 15Ltr kit will covers 70-75 m² per coat at dft of 200-250 microns.

Slip Resistance Finish: 15Ltr kit will covers 60 m² per coat at dft of 250 microns.

Coverage is theoretical actual result depends on substrate porosity and profile.

Packaging

SUPERTOP EP 100 is available in 4 Liters & 15 Liters Two-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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