TECHNICAL DATA SHEET

TOPSEAL EPF 100

Two-Component, Solvent-Free, Pigmented Epoxy Primer

Description

TOPSEAL EPF 100 is a two-component solvent free epoxy pigmented primer. It has an outstanding adhesive bond between the substrate and the epoxy or polyurethane floor coatings, self-levelling and screeds.
It is specially designed with pigment to provide good hiding power (opacity).to substrate.
TOPSEAL EPF 100 adheres to a variety of substrate and has an excellent anti-corrosive characteristic. Also, it can be mixed with graded silica for levelling and repairing of concrete and screed substrates.

Features & Benefits

- Excellent adhesion to different type of substrates.
- High penetration and bonding properties
- Impermeability to liquids
- Good chemical resistance
- Provide hiding power (opacity)
- Excellent abrasion resistance
- Can be used for multiple applications.

Uses

TOPSEAL EPF 100 is used as a consolidating treatment on variable supports before the application of epoxy or polyurethane coatings.
When mixed with silica filler, it can be used for leveling and repairing cracks, non-even substrates.
Primer on substrate prior to the application of epoxy or polyurethane coating.
TOPSEAL EPF 100 is sprinkled with quartz sand while still wet to create a mechanical key for subsequent coatings.

Technical Properties

Appearance	Liquid resin
Color	Off white
Mixed Density	1,250 Kg/m^3 approx.
Pot Life	45 minutes @ 25 ^{o}C
Bonding Strength	≥ 2.5 N/mm^2 (Concrete failure)
Solid Content	100%
Application temperature	5 ^{o}C – 35 ^{o}C
Foot Traffic	After 24 hrs @ 25 ^{o}C
Full Curing	After 7 days @ 25 ^{o}C
Shore D Hardness	≥ 80
Compressive Strength	≥ 56 N/mm^2
Flexural Strength	≥ 20 N/mm^2
Tensile Strength	≥ 10 N/mm^2
Impact Resistance	Pass @ 10 N.m

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 surface defects such as cracks, blowholes and voids should be treated. 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 epoxy coating.

Mixing Instructions:

TOPSEAL EPF 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 base (Component A) and mix together for 2-3 minutes with a drill at a low number of turns (200-300 RPM). If required for repairing add quartz silica (ratio depends on size of silica) and mix again till obtaining a homogenous mix.

Application Instructions:

As Primer:

Apply **TOPSEAL EPF100** using a brush, roller or squeegee at the required coverage to suit the application for which it is being used.

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As Levelling/ Repairing Mortar:

Apply **TOPSEAL EPF 100** mixture with quartz silica on primed substrate using squeegee or trowel to the required thickness.
To obtain mechanical key bonding for top self-leveling finishing layer, broadcast the surface with Quartz Silica. Make sure there are no open pores on the surface of substrate to avoid escaping from air bubbles.

Coverage

3-5 m^2/ Liter per coat depends on surface texture and porosity.

Packaging

TOPSEAL EPF 100 is available in 15 and 4 Ltr Two-Component Kits.

Storage

Keep the product in dry and sheltered place at temperature between +5ºC to +35ºC. 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 and 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.

REV 03-2033

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