

SUPERTOP 3C

Epoxy-Cement Hybrid, Moisture-tolerant Mortar

Description

SUPERTOP 3C is three components modified water base epoxy cement floor topping mortar for smoothing cementitious floors in thickness from 1.5 up to 3mm. It is used for smoothing and treatment of humid substrates.

SUPERTOP 3C is characterized by its excellent adhesion to different supports even on green or damp concrete. It is used as temporary moisture barrier and self-smoothing screed.

Features & Benefits

- Water based system, low VOC
- Durable and low cost.
- Excellent adhesion to green or damp concrete
- Can be over-coated with epoxy/polyurethane resin compounds after 24 hours.
- Prevent osmotic blistering of top resin-based coating over damp concrete.
- Excellent resistance to water and oil.
- Thermal Expansion Properties like concrete.
- Excellent levelling properties.
- High early and final Mechanical strength.
- Non-toxic, low VOC content.
- Good Chemical resistance.

Uses

SUPERTOP 3C is used as an anchoring coat for humid and green concrete supports, before application of epoxy or polyurethane coatings, or with any other waterproofing and acid-resistant products.

SUPERTOP 3C can be applied as temporary moisture barrier (minimum 2mm thickness) prior to installation of different types of flooring such as epoxy& polyurethane coating, tiles, parquet, vinyl sheets, linoleum, etc.

Leveling or patching horizontal concrete surfaces under Epoxy, Polyurethane, PMMA, tiles, sheet floors, carpets or parquet.

Can be used extended with Silica Sand as a patching and repairing mortar.

It is particularly used as an insulation layer onto the support to improve the adhesion of floor coating resin on humid substrates.

It adheres perfectly to both compact and porous surfaces including stoneware, concrete, screed, cement sheet, wood, etc.

Technical Properties

Appearance	Flowable Resin
Color	Off white to beige
Mixture Density	2,100 Kg/m ³ approx.
Pot Life	20 minutes @ 25 °C
Bonding Strength	≥2.5 N/mm ²
Final cure	28 days
Solid Content	100%
Service Temperature	-5 to +90 °C
Compressive strength	45 N/mm ² @7 days 50 N/mm ² @28 days
Flexural Strength	10 N/mm ² @7 days 13 N/mm ² @28 days
Coefficient of thermal expansion	15.2X10 ⁻⁶ 1/K
Water Absorption	0.02 kg.m ⁻² .h ^{-0.5}
Permeability to water vapor	μH ₂ O=252
Permeability to Carbon dioxide	μCO ₂ =4168
Carbon resistance	For 3mm thickness: R=12.5m
Time for over coating	24-48 hours

All values are subject to 5-10% tolerance

Standards Compliance

- EN 1504-2&3, EN 13813.
- DIN 1048-5 (water permeability)
- DIN 51130 (sliding test)

Application Procedures

Surface preparation:

The surface must be solid, sound, free from non-adherent parts such as, dust, grease etc. the substrate can be damp but it should be free from standing water.

Concrete

All blow holes and other surface undulations should be repaired – consult SBI Technical Department for specific recommendations.

Concrete substrates must be prepared mechanically using abrasive blast cleaning, scarifying or grinding equipment to remove cement laitance. it is recommended to prime the surface with TOPSEAL WB before applying SUPERTOP 3C.

Primer Application:

All substrates should be primed with TOPSEAL WB Epoxy Primer before SUPERTOP 3C application. Application should be wet mortar on wet primer. Apply one coat of TOPSEAL onto the surface, ensure application in two directions at right angles with continues pore free coat.

Mixing Instructions:

SUPERTOP 3C 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 1-2 min 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 mixture before application. If more flowability is required, the quantity of Part C can be reduced to achieve desired viscosity. Application of SUPERTOP 3C should be wet: on wet primer.

Application Instructions:

Pour **SUPERTOP 3C** mixture onto the primed substrate and spread to the required thickness. For temporary moisture barrier minimum thickness should be 2mm, self-smoothing in thickness of 1.5-3mm while for patch repairing 3-9mm. for application use suitable trowel or pin leveler. Immediately after the application, pass a spiked roller (in case of self-levelling) onto the surface in order to remove slight trowel marks and free the air bubbles.

In case of application for patch repairing, add Quartz (1-2mm) in ratio of 20-25% of SUPERTOP 3C.

Do not dilute the mixture with water.

Coverage

Each 2 kg of **SUPERTOP 3C** will cover 1 seq. meter in 1 mm thickness.

Coverage depends on substrate porosity and profile.

Packaging

SUPERTOP 3C 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.

REV 03-2032

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