

TEKNOPOX FILL

Epoxy stopper

TEKNOPOX FILL is a two-pack, solvent-free stopper based on epoxy resin.

Intended to be used for stopping up pitted steel and porous concrete surfaces subjected to heavy abrasion.

TEKNOPOX FILL is easy to apply. It can also be used on vertical surfaces, because it does not run or sag.

The product has CE approval for protection of concrete structures.



TECHNICAL DATA

Certificates, approvals and classification	CE marking
Recommended substrate	Steel, Concrete, Clay brick
Binder	Epoxy
Solids	Approx. 100% by volume
Total mass of solids	Approx. 1000 g/l
Volatile organic compound (VOC)	Approx. 0 g/l (DIRECTIVE 2010/75/EU) The VOC value provided is the average value for factory produced products, and consequently it will be subject to variations between individual products covered by this Technical Data Sheet.
Colours	Light grey.
Hardener	Comp. B: TEKNOPOX FILL HARDENER (black)
Mixing ratio (A:B)	1:1 parts by volume
Pot life	+23°C 30 - 60 min (mixture poured out on the floor) 20 - 40 min (mixture kept in the vessel)
Storage	The storage stability is shown on the label. Store in a cool place and in tightly closed containers.

DIRECTION FOR USE

Surface preparation

Remove from the surfaces any contaminants that might be detrimental to surface preparation and application. Remove also water-soluble salts by using appropriate methods. The surfaces are prepared according to the different materials as follows:

STEEL SURFACES: After general cleaning the steel surfaces are blast-cleaned to preparation grade Sa 2½.

CONCRETE SURFACES: The concrete must be at least 4 weeks old, well-hardened and solid. Remove brittle concrete by grinding or hydro-blasting with sand.

Additional instructive information for surface preparation can be found in standards EN ISO 12944-4 and ISO 8501-2.

Application method

Trowel

Application

MIXING OF THE COMPONENTS: Take into consideration the pot life of the mixture when estimating the amount to be mixed at a time. Before application the base and hardener are mixed in right proportion. Stir thoroughly down to the bottom of the vessel. Mixing by machine is recommended, for example a slow-rotating hand-drill equipped with a mixer. Inadequate stirring or incorrect mixing ratio results in imperfect curing and impaired film properties.

Mix small amounts carefully with spatula. Mixing has to be done thoroughly, so that the black hardener does not show as streaks in the mixture.

The stopper is used as such for filling dents that are 0 - 10 mm deep. When filling holes deeper than this, add sand of grain size 0.1 - 0.6 mm (e.g. 2 parts stopper mixture + 1 part of sand).

Apply the stopper by steel trowel. Remove trowel marks and splashes by scraping as soon as the stopper is set. The stopper can be sanded down after about 16 h. It is recommended that the sanding should be done before the stopper sets too much (within 16 - 48 h).

Application conditions

During the application and drying period the temperature of the ambient air, the surface and the product shall be above +10°C and the relative air humidity below 80%. Additionally, the temperature of the surface to be treated and the product must be at least +3°C above the dew point of the ambient air.

**0809**

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Declaration of Performance No. 0055

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EN 1504-2:2004

Surface protection products – Coating

Physical resistance (5.1)

Chemical resistance (6.1)

Abrasion resistance	Requirement: Weight loss less than 3000 mg
Capillary absorption and permeability to water	Requirement: $w < 0,1 \text{ kg/m}^2 \times \sqrt{h}$
Resistance to severe chemical attack, Class I	Requirement: Reduction in hardness of less than 50 %
Adhesion strength by pull-off test	Requirement: Rigid system without trafficking: $\geq 1,0 (0,7) \text{ N/mm}^2$
Dangerous substances	See safety data sheet

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