DATA SHEET 2412
2 30.11.2020

TEKNOPOX FILL A
Epoxy Stopper

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

USAGE
Intended to be used for stopping up pitted steel and porous concrete surfaces subjected to heavy abrasion, especially in nuclear power plants.

SPECIAL PROPERTIES
The stopper is easy to apply. It can also be used on vertical surfaces, because it does not run or sag.

APPROVALS
TEKNOPOX FILL A fulfils the requirements stated in report STUK-YTO-TR 210 issued by STUK - Radiation and Nuclear Safety Authority, Finland.
The product has CE approval for protection of concrete structures. Additional information: see page 3: "CE MARKING".

TECHNICAL DATA

Mixing ratio
Base (Comp. A): white — 1 part by volume
Hardener (Comp. B): TEKNOPOX FILL A HARDENER (black) — 1 part by volume

Pot life, +23 °C
30 - 60 min (mixture poured out on the floor)
20 - 40 min (mixture kept in the vessel)

Solids
100 % by volume

Total mass of solids
abt. 1000 g/l

Volatile organic compound (VOC)
abt. 0 g/l

Drying time at +23°C / 50% RH
- **dust free (ISO 9117-3:2010)** after 6 h
- **fit for light traffic** after 16 h
- **fully cured** after 7 days

Overcoatable with stopper or paint

	by itself or with suitable primers and top coats	
surface temperature	min.	max.*
+10°C	as soon as the stopper is set	after 2 d
+23°C	as soon as the stopper is set	after 24 h

* Maximum overcoating interval without roughening.

Increase in film thickness and rise in the relative humidity of the air in the drying space usually slow down the drying process.

Clean up
TEKNOSOLV 9506

Colours
Light grey

Radiation resistance and decontamination
The coating system withstands well radioactive radiation and is easy to decontaminate (statement No. VTT-R-00255-20 by VTT - Technical Research Centre of Finland).

SAFETY MARKINGS
See Safety Data Sheet.

PTO

DIRECTION FOR USE

Surface preparation

Remove from the surfaces any contaminants that might be detrimental to surface preparation and painting. 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. The water content of the top layer must not exceed 4% by weight.
Smooth down any spatter and irregularities on the surfaces by grinding. Brush away loose cement, sand and dust. Wash oily and greasy surfaces with detergent or solvent. Remove dense laitance if present by etching with RENSA ETCHING etching liquid or by grinding or blast-cleaning.

Mixing of the components

Take into consideration the pot life of the mixture when estimating the amount to be mixed at a time. Before painting 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.

Application conditions

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

Application of stopper

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).

ADDITIONAL INFORMATION

The storage stability is shown on the label. Store in a cool place and in tightly closed containers.

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

Continues...

CE MARKING

CE

0809

Teknos Oy
Takkatie 3, P.O. Box 107
FI-00371 Helsinki, Finland
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Declaration of Performance No. 0047

0809-CPR-1063
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: $w < 0,1\ kg/m^2 \times \sqrt{h}$
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: $\geq 1,0\ (0,7)\ N/mm^2$
Dangerous substances	See safety data sheet

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