

HYDROPOX F

Properties:

HYDROPOX F is a 2-component epoxy resin fine mortar (PC mortar) for repairing interior and exterior concrete surfaces.

Due to its specific grading curve *HYDROPOX F* can be applied as a fine filling compound.

The particular material basis of *HYDROPOX F* makes application even on slightly moist subsurface possible.

Technical data:

Substance data of components:

Component A

Consistency	highly viscous	
Colour	grey	
Odour	characteristic	
Bulk density (23°C)	approx. 1.67 g/cm ³	DIN EN 1015-6
Dyn. viscosity (23°C)	not applicable	DIN EN ISO 2555

Component B

Consistency	liquid	
Colour	light yellow	
Odour	similar to amine	
Spec. density (23°C)	approx. 0.99 g/cm ³	DIN EN ISO 2811-1
Dyn. viscosity (23°C)	approx. 20 - 40 mPas	DIN EN ISO 2555

Mixture of A- and B-component:

Processing temperature	10 - 30°C	substrate temperature
Density of mixture (23°C)	approx. 1.92 g/cm ³	DIN EN 1015-6

Reaction data (at 10°C):

Pot-life	approx. 105 min
Dust-dry	approx. 4 h
Foot traffic	approx. 23 h
Mechanical loads	6 d
Completely cured	7 d

Reaction data (at 20°C):

Pot-life	approx. 60 min
Dust-dry	approx. 3.5 h
Foot traffic	approx. 15 h
Mechanical loads	5 d
Completely cured	7 d

Reaction data (at 30°C):

Pot-life	approx. 45 min
Dust-dry	approx. 3 h
Foot traffic	approx. 8 h
Mechanical loads	5 d
Completely cured	7 d

Properties of PC mortar (at 23°C/ 50 % rel. humidity):

Compressive strength		DIN EN 12390-3
1 d	approx. 34 N/mm ²	
7 d	approx. 45 N/mm ²	

Bending tensile strength		DIN EN 12390-5
1 d	approx. 14 N/mm ²	
7 d	approx. 16 N/mm ²	
E-modulus	approx. 4000 N/mm ²	DIN EN 12390-13

Processing:

The subsurface must be stable and free of separating substances. Insufficiently firm layers and concrete slurry must be removed. For this purpose the subsurface must be prepared by suitable mechanical processes such as e.g. shot blasting, milling and subsequent shot blasting or blasting with other hard blasting abrasives.

HYDROPOX F is supplied in a set defined mix-ratio of components (A : B). For the processing, the B component (hardener) is completely filled into the A component (resin mixture) and homogenously mixed by means of a slowly moving stirring device (max. 60 rpm) until a uniformly grey colouring is produced.

Mixing must be carried out for at least 3 minutes. The mixture must be used up within 60 minutes (at 20°C).

Surfaces should be treated with *HYDORPOX EPG* immediately prior to applying *HYDROPOX F*. *HYDROPOX F* should be applied in a thick layer with a flat end trowel over the freshly treated surfaces and worked in well.

Safety information:

HYDROPOX F component A contains epoxy resin. *HYDROPOX F* component B contains amines. Both components are classified as hazardous according to Regulation (EC) 1272/2008 (CLP).

It is therefore necessary, before beginning processing, to become familiar with the precautions and safety advice as indicated in the material safety data sheet.

Packaging:

Combined packaging	10 kg combined metal drum
	30 kg combined metal drum

Bigger packaging on request.

Storage:

Shelf life at least 6 month in original packaging when stored in dry conditions between 15-25°C, protected from heat, frost and direct sunlight.

After the expiration the use of the product is generally not recommended, unless an approval has been provided by TPH. This approval can only be obtained by the quality assurance department of TPH releasing the material after verification of main properties being within specification.

Disposal:

Small quantities of cured product residues can be disposed of as normal domestic waste. Dispose of not cured product components must be effected in accordance with the corresponding local regulations. For further information please refer to the material safety data sheets.

Test certificates:

Determination of setting time at different temperatures; TPA GmbH 2008

HYDROPOX F - Test of reaction-bonded repair mortar (PC) according to Guideline of concrete repair of the German Committee for Reinforced Concrete, part 2, section 4.4; MFPA Leipzig 2010



Legal notice:

The correct and thus successful application of our products is not subject to our control. A guarantee can be issued for the quality of our products within the framework of our sales and supply conditions, however not for successful processing. All data and specifications in this specification sheet are based on the present state of the art and the right to changes and adaptations for the sake of development remains explicitly reserved. The consumption specifications designated by us can be only average empirical values, where deviations are possible on an individual basis and therefore cannot be excluded by us.

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