

HYDROPOX FLEX EPG

Properties:

HYDROPOX FLEX EPG is a 2-component, flexible injection resin on an epoxide basis with specific chemical and physical properties.

HYDROPOX FLEX EPG is used as a priming resin in concrete renovations; especially on concrete surfaces on which cracking may occur.

The particular material basis of *HYDROPOX FLEX EPG* makes application even on slightly moist subsurface possible (see bond strength).

Technical data:

Substance data of components:

Component A

Consistency	liquid	
Colour	light yellow	
Odour	characteristic	
Spec. density (23°C)	approx. 1.07 g/cm ³	DIN EN ISO 2811-1
Dyn. viscosity (23°C)	approx. 500 mPas	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
Mixing ratio A : B	2 : 1 (parts by volume) 2.27 : 1 (parts by weight)	
Viscosity of mixture (23°C)	approx. 140 mPas	DIN EN ISO 2555

Reaction data (at 23°C):

Pot-life	approx. 30 min	DIN EN 14022
Completely dry	6 h	
Walkable	24 h	
Completely cured	7 d	

Properties of epoxy resin:

Shore A hardness	approx. 90	DIN ISO 7619-1
Bond strength at concrete		DIN EN 1542
dry	approx. 2.1 N/mm ²	
slightly moist	approx. 3.0 N/mm ²	

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 e.g. shot blasting, milling and subsequent shot blasting or blasting with other hard blasting abrasives.

The components are stirred in the indicated mixing ratio by means of a slowly moving stirring device (max. 300 rpm) until an homogenous (free of streaks) fluid is produced. Whereby you should take care that the B component is

evenly dispersed. Mixing must be carried out for at least 3 minutes. The mixture must be used up within 30 minutes (20°C).

HYDROPOX FLEX EPG is applied by means of a rubber pusher (or with a brush if the subsurface to be treated is small) until the subsurface pores are fully saturated and subsequently treated with a short-hair lambskin roller.

Using *HYDROPOX FLEX EPG* as sole concrete protection (without the subsequent application of *HYDROPOX* mortars) the coating has to be done in two layers, whereas the first layer can be worked over after approx. 6 h.

When coating concrete areas are in direct solar irradiation the second layer has to be spread with siliceous sand.

Safety information:

HYDROPOX FLEX EPG component A contains epoxy resin. *HYDROPOX FLEX EPG* 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:

Component A	20 kg metal drum 5.5 kg metal drum
Component B	8.8 kg metal canister 2.4 kg metal canister
Combined packaging	1.44 kg combined can

Bigger packaging on request.

Storage:

Shelf life at least 12 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.

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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