

HYDROPOX EPG LV

Properties:

HYDROPOX EPG LV is an elastic two component resin based on epoxy with special chemical and physical properties.

Due to its very low viscosity (compared to conventional EP resins) *HYDROPOX EPG LV* is used for pore and crack filling as well as for rigidifying purposes at concrete restoration.

Because of the special material base *HYDROPOX EPG LV* can also be used on moist concrete surfaces.

Technical Data:

Substance data of components:

Component A

Consistency	liquid	
Colour	light yellow	
Odour	characteristic	
Spec. density (23°C)	approx. 1.04 g/cm ³	DIN EN ISO 2811-1
Dyn. viscosity (23°C)	approx. 50 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	3.91 : 1 (parts by volume) 4 : 1 (parts by weight)	
Viscosity of mixture (23°C)	approx. 35 mPas	DIN EN ISO 2555

Reaction data (at 23°C):

Pot-life	approx. 40 min	DIN EN 14022
Final curing	approx. 7d	

Properties of epoxy resin (after 7 d):

E-Modulus	approx. 1.03 MPa	DIN EN ISO 527
Tensile strength	approx. 0.30 MPa	DIN EN ISO 527
Elongation at break	approx. 45 %	DIN EN ISO 527

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.

The components are stirred in the indicated mixing ratio by means of a slowly moving stirring device (max. 300 rpm) until a 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 40 minutes (20°C).

HYDROPOX EPG LV 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.

Safety information:

HYDROPOX EPG LV component A contains epoxy resin. *HYDROPOX EPG LV* 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 1.25 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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