Technisches Datenblatt
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HYDROPOX EPG-T

Properties:

HYDROPOX EPG-T is a two component coating based on epoxy resin with specific chemical and physical properties.

HYDROPOX EPG-T adheres excellently to concrete, is highly resistant to chemical and mechanical loads.

HYDROPOX EPG-T is used as protective coating in factories, refrigerated warehouses, stores, schools, hospitals, laboratories, different medical areas, supermarkets etc..

Technical data:

Substance data of components:		
Component A		
Consistency	liquid	
Colour	grey	
Odour	characteristic	
Spec. density (20°C)	approx. 1.44 g/cm^3	DIN EN ISO 2811-1
Dyn. viscosity (20°C)	approx. 3200 mPas	DIN EN ISO 3219
Component B		
Consistency	liquid	
Colour	light grey	
Odour	similar to amine	
Spec. density (20°C)	approx. 1.95 g/cm^3	DIN EN ISO 2811-1
Dyn. viscosity (20°C)	approx. 7000 mPas	DIN EN ISO 3219
Mixture of A- and B-component:		
Processing temperature	10 - 30°C	substrate temperature
Mixing ratio A : B	1 : 1 (pbw)	
Density of mixture (20°C)	approx. 1.70 g/cm^3	DIN EN ISO 2811-1
Reaction data:		
Pot-life (23°C)	approx. 30 - 40 min	DIN EN 14022
Curing process (23°C)	60-90 min (dust-dry) 5-7 h (walkable) 24 h (recoatable) 7 d (completely cured)	
Properties of cured coating:		
Shore D hardness	approx. 80	DIN 53505

Processing:

The subsurface must be stable and free of separating substances such e.g. forming oils. 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.

Particular consideration must be given to moisture of subsurface to prevent adhesion problems and undesired side reactions. It is to be noted that the moisture of subsurface is less than 5 percent.

In the case of highly absorbent or weathered subsurfaces as well as in areas with high chemical exposure a previous coating with *HYDROPOX EPG* primer is necessary. Defects must be repaired with PC mortars such as *HYDROPOX* mortars.

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. Mixing must be carried out for at least 3 minutes. The mixture has to be applied within the pot-life.

Coating system	:	1. *HYDROPOX EPG* (if necessary) 2. *HYDROPOX EPG-T*

If necessary, *HYDROPOX 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.

Consumption:

HYDROPOX EPG	:	0.3 - 0.6 kg/m^2

(depending on the roughness of subsurface)

After priming quartz sand (0.1 - 0.3 mm grain size) should be interspersed to increase the anti-skid properties.

HYDROPOX EPG-T should not be applied until the primer has dried for at least 6 hours. The maximum flash-off time of 48 hours of *HYDROPOX EPG* primer shall not be exceeded.
The coating is evenly distributed on the surface by means of a V-notched squeegee or rubber squeegee. The fresh layer is then uniformly worked through with a spiked roller lengthwise and crosswise.

Consumption:

HYDROPOX EPG-T	:	
little to moderate loads	:	0.3 - 0.7 kg/m^2
strong loads	:	> 0.7 kg/m^2
		coat thickness 1 mm / m^2 ≈ 1,7 kg

Note: Full mechanical and chemical loading capacity will only be achieved after 7 days.

Further processing instructions please refer to the technical bulletin "TPH surface protection systems".

Safety information:

HYDROPOX EPG-T component A contains epoxy resin. *HYDROPOX EPG-T* 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	5 kg metal drum
Component B	5 kg tin

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.

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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Waterproofing Systems