

## HYDROPOX C

### Properties:

*HYDROPOX C* is a 2-component patching-repair mortar based on epoxy resin. Due to its creamy and thixotropic consistency *HYDROPOX C* is suitable for application in horizontal, vertical and overhead areas.

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

### Technical data:

#### Substance data of components:

##### *Component A*

Consistency	highly viscous
Colour	grey
Odour	characteristic
Spec. density (23°C)	approx. 1.83 g/cm <sup>3</sup>
Dyn. viscosity (23°C)	not determined

##### *Component B*

Consistency	liquid	
Colour	light yellow	
Odour	similar to amine	
Spec. density (23°C)	approx. 0.99 g/cm <sup>3</sup>	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. 1,68 g/cm <sup>3</sup>	

#### Reaction data (at 23°C):

Pot-life	approx. 30 min
Final curing	7 d

#### Properties after curing:

Compressive strength		DIN EN 196
1 d	approx. 20 N/mm <sup>2</sup>	
3 d	approx. 44 N/mm <sup>2</sup>	
7 d	approx. 51 N/mm <sup>2</sup>	
Bending tensile strength		DIN EN 196
1 d	approx. 17 N/mm <sup>2</sup>	
3 d	approx. 21 N/mm <sup>2</sup>	
7 d	approx. 22 N/mm <sup>2</sup>	
Bond strength at concrete at 10°		DIN EN 1542
1 d	nicht messbar	
2 d	approx. 1.5 N/mm <sup>2</sup>	
3 d	approx. 3.0 N/mm <sup>2</sup>	
7 d	≥ 4.0 N/mm <sup>2</sup>	
Bond strength at concrete at 23°		DIN EN 1542
1 d	approx. 0.95 N/mm <sup>2</sup>	
3 d	≥ 4.0 N/mm <sup>2</sup>	
7 d	≥ 4.0 N/mm <sup>2</sup>	
14 d	≥ 4.0 N/mm <sup>2</sup>	
E-modulus		DIN EN ISO 527
7 d	approx. 2490 MPa	
14 d	approx. 3370 MPa	
Tensile strength		DIN EN ISO 527

7 d	approx. 13 MPa
14 d	approx. 14 MPa

Elongation at break		DIN EN ISO 178
7 d	approx. 1.0 %	
E-modulus		DIN EN ISO 604
7 d	approx. 3030 MPa	
14 d	approx. 3660 MPa	

#### 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.

*HYDROPOX C* 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 an uniformly grey colouring and a creamy, steady consistency is produced. Mixing must be carried out for at least 3 minutes. The mixture must be used up within 30 minutes (20°C).

*HYDROPOX C* should be applied on the concrete surface by means of notched or smoothing trowel.

#### Safety information:

*HYDROPOX C* component A contains epoxy resin. *HYDROPOX C* 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	7,15 kg metal drum
	0,85 kg Tin can

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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