

DEGADUR® Crack Sealer HE

Very low viscous 2-component methacrylate resin with improved elongation, used to repair and seal cracks from hairline width to 3 mm in concrete structures.

Properties

DEGADUR® Crack Sealer HE is a 2-component reactive methacrylate resin, used to repair and seal cracks in concrete structures. Due to low viscosity and low surface tension it has very good wetting power and penetration behaviour. According to ASTM D 2369-10, Method E (standard test method for volatile content of coatings VOC) the measured value is < 70 g/l.

Application

DEGADUR® Crack Sealer HE has to be processed only with Hardener Powder (BPO). The quantity has to be adjusted to the substrate temperature (see table).

Application method: In a gravity-fed process by squeegee and roller.

The consumption is depending on absorption properties of the substrate and crack depth and crack width.

Pot life and curing time at different temperatures:

Temperature [°C]**	Hardener [% by wt.]*	Pot life [min]	Hardening time [min]
5 - 10	6.0	approx. 14	approx. 45
10 - 15	4.0	approx. 12	approx. 45
15 - 20	2.0	approx. 13	approx. 45
20 - 25	1.5	approx. 11	approx. 45
25 - 30	1.5	approx. 10	approx. 45
30 - 35	1.0	approx. 10	approx. 45
> 35	1.0	approx. 6	approx. 30

*) Quantity calculated on DEGADUR® Crack Sealer HE.

***) Temperature statements refer to resin-, floor- and air-temperature.

****) The indication of the approximate pot life always refers to the lower temperature.

Note: All values are derived from laboratory tests. Deviations caused by environmental factors might occur.

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Mechanical properties

Property	Value	Unit	Method
Tensile strength	30 (4350)	MPa (psi)	DIN EN ISO 527
Elongation at break	> 12	%	DIN EN ISO 527
E-modulus	1593		DIN EN ISO 527

Crack width < 0.1 mm:

a) Depth of penetration max. 2 mm. The problem is the presence of water in such hair cracks.

b) The advised measure is to flame the substrate (burner with an operation range of 1.5 m are available) with a speed of 3 m/min.

When the surface is cooled down to ambient temperature immediately the DEGADUR® Crack Sealer HE should be applied. Under such conditions depth of penetration is approx. 11 mm.

Crack width 0.1 - 0.15 mm:

Depth of penetration up to 23 mm.

Crack width > 0.15 mm:

First application of DEGADUR® Crack Sealer HE but that is not sufficient; it should be applied DEGADUR® 112 subsequently.

Typical properties are approximate reference values. If you need product specifications please contact us.

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