Acrydur® - Crack Sealer 114 (GB)

Quick-curing injection resin of low viscosity for concrete and cement screeds

PLASTI CHEMIE International GmbH

Application:

Crack Sealer 114 works as a fortifier for extremely porous substrates. It closes cracks in screeds, concrete constructions and it is used as a filler resin for hollow screeds. The resin can be applied by hand. Venting until saturation serves the stabilization of the underground. After the treatment, the ground has to be additionally primed with Acrydur® 112!

Properties:

Crack Sealer 114 is a solvent free, low viscosity, reactive methacrylate resin that cures quickly even at low temperatures.

Characteristics of the resin as delivered:

Property	Measuring method	Approx. value
Viscosity at 23 °C	DIN 53 015	1 - 20 mPa · s
Flow time at 20°C, 4 mm cup	DIN 53 211	10-16 sec
Density D^{20}	DIN 51 757	0.94 g/cm^3
Pot life at 20°C	ca. 7 min	
Curing	10 – 20 min at 20°C	
Form of delivery	slightly, cloudy, liquid	
Shelf-life	dark at < 20°C 6 months maximum	
Bundle	180 kg drums 25 kg, 10 kg pails	

Characteristics of the resin in the hardened state:

Property	Measuring method	Approx. value
Strain at break	EN ISO 527	~3%
Tensile strengh	EN ISO 527	~25 MPa
E-modul	EN ISO 527	987 MPa
Water absorption, 4 days	DIN 53 495	0 mg
Shore-D	DIN 53 505	70-90 Units

Suggested formulations
AC 114

Primer:

Crack Sealer 114 must be processed with hardener 50 W. The amount of hardener must be adjusted to the according temperature of the property. At temperatures below - 0°C, it is possible to add Accelerator 101 (approx. 0,5% at 0°C up to 3% at -30°C), while maintaining the 6 vol.-% hardener powder.

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After the mixing in the hardener powder, Acrydur® 114 is evenly distributed on the substrate with a roller or a squeegee (ventilation). Highly absorbent substrates have to be vented moistly prior to curing until the pores close.

Consumption: approx. 500-1000 g/m² per work step and absorptivity of the substrate.

Mix ratio:

8 L Crack Sealer 114
0,24 L Hardener 50W (at 20°C ground temperature)

Pot- and curing time depending on the temperature:

Proceed with the further composition of layers of Acrydur® coatings only after the entire curing of the preceding layers

Temperatur [°C]	Hardener [Vol%]	Hardener [wt%]	Pot life [min]	Curing time [min]
+0	6.0	4.0	ca. 11	ca. 30
+5	5.0	3.0	ca. 8	ca. 30
+10	4.0	2.6	ca. 8	ca. 30
+15	3.0	2.0	ca. 7	ca. 30
+20	2.0	1.3	ca. 7	ca. 20
+25	1.0	0.6	ca. 7	ca. 20

- Hardener quantity calculated according to Acrydur® 112
- Temperature refers to resin, surface and air temperature

Attention:

Hardener levels below 1 vol. % may cause curing problems!

Storage:

Methacrylate resins are subject to the regulations for flammable substances. Acrydur® resins must be stored in a cool place away from direct sunlight, preferably at temperatures between 15 and 20°C. Paraffin particles may precipitate during storage. It is important to stir up the drums prior to processing. Please also refer to our MSDS.

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Industrial safety:

Provide adequate ventilation during work. During processing, observe the regulations of the Hazardous Substances Ordinance, the instructions of the Federal State Committee for Occupational Safety and Safety Technology (LASI), and our safety data sheets.

VbF: A I

GISCODE: RMA 10

HS-Code: 3208 2010

CE-labelling

CE	
Plasti Chemie Produktionsgesellschaft mbH • Falgardring 1 • 08223 Falkenstein • Germany	
EN 13813, SR-B2, 0-AR0, 5-IR12	
Acrydur® 114	
Synthetic resins for internal uses (Application in accordance with the newest technical information)	
Reaction to fire:	E_{fl}
Wear resistance (Abrasion Resistance):	AR 0.5
Impact resistance:	IR 12
Tensile bond strength:	B 2.0

Data concerning our products and devices as well as concerning our data and procedures are based on an extensive research work and an application technology experience. We obtain these results, with which we do not take over adhesion going beyond the respective single contract, in word and writing after best knowledge, reserve ourselves we however technical changes in the course of the product development. Beyond that our application technology service stands when desired for large consultation as well as for co-operation with the solution manufacturing and application technology problems for order. That does not relieve the user however to examine our data and recommendations before their use responsible for the own use. That applies - particularly for deliveries to foreign markets - also regarding the keeping of patent rights third as well as for applications and procedures, which are not expressly in writing indicated by us. The case of loss our adhesion is limited to indemnifications of same extent, as they plan our general terms of delivery and sales with lack of quality.

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