Acrydur® 118 (GB)

Special adhesive primer
for use on damp or new concrete substrates

PLASTI CHEMIE International GmbH

Application: Acrydur® 118 is used as a special primer on damp or new concrete substrates.

Properties: Acrydur® 118 is a low viscosity, 2 component reactive methacrylate resin that also cures quickly even at low temperatures. It has very good adhesion to damp concrete and cementitious based substrates.

Characteristic of the resin as delivered:

Property	Measuring method	Approx. value
Viscosity at 23 °C	DIN 53 015	100-130 mPa · s
Flow time at 20°C, 4 mm cup	DIN 53 211	30-40 sec
Density D^{20}	DIN 51 757	0.99 g/cm^3
Pot life at 20°C	ca. 8 min	
Curing	ca. 20 min at 20°C	
Form of delivery	liquid, white	
Shelf-life	6 months at <20°C in originally closed packaging	
Bundle	180 kg drums 25 kg, 10 kg pails	

Characteristic of the resin in the hardened state:

Property	Measuring method	Approx. value
Strain at break	EN ISO 527	~3%
Tensile strengh	EN ISO 527	~20 MPa
E-modul	EN ISO 527	749 MPa
Water absorption, 4 days	DIN 53 495	200 mg
Shore-D	DIN 53 505	60-85 Units

Initiator/Hardener: Hardener powder 50W(BPO), depending on temperature

Processing Notes:

Processing: Acrydur® 118 is suitable for damp concrete and cementitious substrates. There must be no visible water on the surface. The surface must be firm, solid and free from dust, grease and oil.

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Acrydur® 118 must be mixed with Acrydur® Hardener 50 W. The amount of hardener must be adjusted to the respective object temperature (see table). At temperatures below - 0°C, accelerator B101 additionally must be added ~ 0.5% at 0°C up to 3 % at -30°C with retention of 6 wt.% by weight of hardener powder. After mixing in the hardener, the primer is poured onto the substrate and spread out with a thick primer roller. A notched rubber squeegee can be used for fast application over large areas. Apply at a rate of 0,4 kg/m² to 0,6 kg/m² depending on the density and porosity of the substrate. In all cases, continue to apply the primer until saturation occurs to obtain a continuous resin film. On extremely porous absorbent substrates, apply two coats of primer to obtain a thin but continuous film that bonds the broadcast material. We recommend slightly broadcast the primer with quartz sand (particle size 0.7 - 1.2 mm). If only thin sealers are to be applied, we recommend using 0.4 – 0.8 mm quartz sand. This step will ensures a strong bond between the primer and the subsequent coating.

Mix ratio:

8 L primer Acrydur® 118
240 mL hardener 50 W at 20 °C ground temperature

Amount of Hardener depending on temperature:

Temperatur [°C]	Hardener [Vol%]	Hardener [wt%]	Pot life [min]	Curing time [min]
+0	6.0	4.0	ca. 15	ca. 40
+5	5.0	3.3	ca. 10	ca. 35
+10	4.0	2.6	ca. 10	ca. 30
+15	3.5	2.3	ca. 10	ca. 30
+20	3.0	2.0	ca. 8	ca. 20
+25	2.0	1.3	ca. 5	ca. 20

• Hardener quantity calculated according to Acrydur® 118 •
Temperature refers to resin, surface and air temperature

Note: Weight to Volumetric conversion of Hardener

1 cm³ of Acrydur® Hardener 50 W weighs 0.65 g
1 g of Acrydur® Hardener 50 W = 1.54 cm³

Attention: Hardener quantities below 1 % by weight may cause polymerization failure!

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Further coats of Acrydur® must only be applied only after the previous coat has completely cured.

Storage: Methacrylate resins are subject to the regulations for handling highly flammable substances. Acrydur® resins should be stored in a cool place, protected from direct sunlight, ideally at temperatures between 15 and 20 °C. Paraffin may settle out during storage. Therefore, the containers must be thoroughly stirred before use. Please also refer to the safety data sheets for further information.

Industrial safety: Ensure good ventilation during processing. The regulations of the LASI (State Committee for Occupational Safety) must be observed. Please read and follow the instructions on our safety data sheets.

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VbF: A I

GISCODE: RMA 10

HS-Code: 3208 2010

CE	
Plasti Chemie Produktionsgesellschaft mbH • Falgardring 1 • 08223 Falkenstein • Germany	
EN 13813, SR-B2, 0-AR0, 5-IR12	
Acrydur® 118	
Synthetic resins for internal uses (Application in accordance with the newest technical information)	
Reaction to fire:	E_R
Wear resistance (Abrasion Resistance):	AR 0.5
Impact resistance:	IR 12
Tensile bond strength:	B 2.0

CE- labelling

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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