Acrydur® - 112 (GB)

Fast-curing 2-component- adhesive primer
for concrete and cement screed

PLASTI CHEMIE International GmbH

Application: Primer 112 serves as an adhesive primer for Acrydur® coatings, especially on cementitious substrates.

Properties: Primer 112 is a 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	70-110 mPa · s
Flow time at 20°C, 4 mm cup	DIN 53 211	30-40 sec
Density D^{20}	DIN 51 757	0.97 g/cm³
Pot life at 20°C	ca. 6 min	
Curing	10 – 20 min at 20°C and 2% hardener	
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	~30 MPa
E-modul	EN ISO 527	842 MPa
Water absorption, 4 days	DIN 53 495	100 mg
Shore-D	DIN 53 505	60-85 Units

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

Suggested formulation
AC 112
primer: Primer 112 can be processed with hardener 50 W. The quantity of hardener must be adjusted to the object temperature (see table). At temperatures below - 0°C, accelerator B101 can additionally be added (~ 0.5 % at 0 °C up to 3 % at –30 °C) with retention of 6 PBV hardener powder.

After mixing the hardener powder, Acrydur® 112 is spread evenly and thinly dispersed with a roller or rubber squeegee (300-600 g/m²). Consumption must be adjusted individually. On extremely absorbent

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substrates, apply two coats of primer to obtain a thin but closed film that binds the broadcast material. We recommend slightly broadcast the primer with quartz sand (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 ensure a strong bond between the primer and the subsequent coating.

Consumption ~ 300-600 g/m² per work step

Suggested formulation:

8 L primer 112
240 mL hardener 50W (at 20°C ground temperature)

Pot life and curing times depending on temperature:

Further coats of Acrydur® should be applied only after the previous coats have completely cured.

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. 25
+20	3.0	2.0	ca. 6	ca. 20
+25	2.0	1.3	ca. 6	ca. 20

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

Attention:

Hardener levels below 2 vol.% can cause polymerization failure!

Storage:

Methacrylate resins are subject to the handling regulations for highly flammable materials. Acrydur® resins should be stored cool, away from direct sunlight and preferably at temperatures between 15 – 20 °C. During storage paraffin particles and fillers may precipitate. Therefore, the containers must be stirred up well before use. Please refer to our Safety Data Sheets.

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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® 112	
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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