Acrydur® 540

Medium-viscosity, elasticized methacrylate base resin
for the production of cove pastes

PLASTI CHEMIE International GmbH

Characteristics:

Acrydur® 540 is characterized by its elasticity, high filler loading capacity, and clear cure. Due to its excellent wetting properties regarding fillers and pigments, Acrydur® 540 is preferably used for the production of cove paste in combination with Aerosil® or Sylothix®

Characteristics of the Supplied Resin:

Characteristics	Measurement Method	Approximate value
Run-out time at 20°C, 4 mm	DIN EN ISO 2431	35-45 sec
Density D^{20}	DIN EN ISO 1183-1	1,0 g/cm^3
Pot life at 20°C	approx. 10 min	
Curing	25–35 min (20 °C and 1% hardener)	
Form of Delivery	Liquid, slightly Violet	
Shelf life	in the dark at < 20 °C: maximum 6 months.	
Delivery Container	180 kg Drum 25 kg, 10 kg Pails	

Initiator/Hardener: Hardening powder 50 W (BPO, 50%), temperature dependent.

Standard Formulations: (20°C)

Mixed approach (Paste)

19 l	Acrydur® 540
1 kg	Aerosil® 200

Processing the Paste:

The **Paste** consisting of Acrydur® 540 and Aerosil® is mixed at a ratio of approximately 1:3 (by volume) with colored quartz sand (grain size 0.4–2.0 mm) to produce a thixotropic, non-sagging compound (trowel test). Once a workable mixture has been prepared, Hardener 50 W is added in an amount dependent on the floor temperature (1–4% by volume; see table). The cove mortar is applied using a flat trowel and then smoothed with a suitably curved cove trowel. After curing, the surface of the cove is sanded if necessary and then sealed with a clear coating using Acrydur® 522, 526, or 528; in wet areas subject to thermal cycling, Acrydur® 526 is used.

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Pot Life and Curing Times Depending on Temperature:

Temperature [°C]	Hardener [Vol%]	Hardener [wt%]	Pot life [min]	Curing time [min]
+ 5	4.0	4.0	approx. 20	approx. 50
+ 10	3.0	2.6	approx. 15	approx. 45
+ 20	2.0	2.0	approx. 10	approx. 25

- Hardener quantity based on Acrydur® 540
- The temperature specifications refer to the resin, substrate, and air temperatures.

Notes: Installation only on pre-primed surfaces! Good room ventilation during application ensures proper curing.

Storage: Regulations governing the handling of highly flammable substances apply to methacrylate resins. Acrydur® resins must be stored in a cool place, protected from direct sunlight, and ideally at temperatures between 15 °C and 20 °C. During storage, paraffin components may separate out. Therefore, the containers must be thoroughly stirred before processing!
Please observe the instructions provided in our Safety Data Sheets.

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

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VbF :	A I
GISCODE:	RMA 10
HS-Code:	3208 2010

CE	
Plasti Chemie International GmbH • Falgardring 1 • 08223 Falkenstein • Germany	
EN 13813, SR-B2, 0-AR0, 5-IR12	
Acrydur® 540	
Synthetic Resins for Indoor Use (Application in accordance with the latest technical information)	
Reaction to Fire:	E_R
Wear Resistance (Abrasion Resistance):	AR 0.5
Impact resistance:	IR 12
Tensile strength:	B 2.0

CE- Labeling

Our information regarding our products, equipment, systems, and processes is based on extensive development work and practical application experience. We provide these findings—for which we assume no liability extending beyond the scope of the respective individual contract—both verbally and in writing to the best of our knowledge; however, we reserve the right to make technical modifications in the course of product development. Nevertheless, this does not absolve the user of the responsibility to independently verify the suitability of our products and processes for their own specific application. This also applies with regard to the observance of third-party intellectual property rights, as well as to applications and procedures that have not been expressly authorized by us in writing.

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