Acrydur™ 522 (GB)

Low-viscous, slightly blue
methacrylic resin for hard sealings

PLASTI CHEMIE
Produktionsgesellschaft mbH

Characterization: Acrydur™ 522 is a newly developed hard methacrylic resin of low viscosity that is preferably used as a sealer for Acrydur™ coatings in order to improve heavy mechanical and scratch resistance as well as maintenance. The main application areas are trowel-smoothed industrial floors made of Acrydur™ 510 and Acrydur™ 418.

Acrydur™ 522 excels in:

- improved self-leveling qualities
- minimal yellowing
- high scratch resistance by using hardener/M
- excellent chemical resistance
- high thermal endurance
- low tendency to staining

Data:

Delivery form	liquid, slightly bluish
Flow time	26- 32 (20°C DIN cup 4mm)
Curing time	20-30 minutes (20°C and 1% hardener)
Shelf life	dark at < 20 °C 6 months maximum
Bundle	180 kg, drum 25 kg, 10 kg pail

Application: Stir up well all Acrydur™ resins before application! Pour the required preparation quantity into a mixing pail and stir in hardener 50W for about 1 min by using a suitable agitator. Acrydur™ 522 is preferably applied crosswise with short hair rollers (mohair) in a layer thickness of up to 0.4 mm max (~ 400 g/m²). Layer thickness must at least be 0.2 mm (200 g/m²) and should not exceed 0.5 mm (500 g/m²) with 2 layers – depending on the required coating structure (smooth or coarse).

Special remarks: After stirring in the hardener, the sealer is poured out onto the floor and immediately dispersed evenly. Sealings with Acrydur™ 522 should not be applied onto coatings with Acrydur™ 332 as the coating's high flexibility in combination with the very hard sealer Acrydur™ 522 might cause cracking on loading. Hardener concentrations of > 2 % may cause discolorations (yellowing). Furthermore a waiting time of about 2 hours between the coating's curing and the application of the sealer has proven. Despite the good chemical resistance of Acrydur™ 522, one has to reckon a reduced resistance when sealing coatings based on Acrydur™ 418 or 510. With these solvents (on continuous loading), a swelling by diffusion may take place after some time. This process depends on the sealer's layer thickness. In these cases, we thus recommend a layer thickness

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of 0.5 mm minimum or better a double application of Acrydur™ 522 N. Only continue coating works after complete curing of the previous layer. It has proven that intermediate grinding of the coating before applying the sealer increases intermediate adhesion and levels any unevenness (lumps, knobs)

Preparation

8l Acrydur™ 522
0.08l hardener powder 50 W or 0.16 l hardener/M

Pot life and curing time at different temperatures:

Temperature [°C]**	Hardener [Vol%]*	Pot life [min]	Curing time [min]
+5	2	ca. 30	ca. 60
+10	1,5	ca. 20	ca. 45
+20	1	ca. 10	ca. 40
+30	1	ca. 8	ca. 20

*) Hardener quantity calculated according to Acrydur™ 522
**) temperature refers to resin, surface and air temperature

Attention: At temperatures below 0°C, the resin needs to be put into a warm environment before processing - minimum 5°C and add up to 2% hardener maximum. Basically accelerator cannot be added to sealers – neither as thinner nor as accelerator – due to yellowing aspects.

Storage: Methacrylate resins are subject to the handling regulations of highly flammable materials. Acrydur™ resin has to be stored cool, at temperatures between 15 – 20° C and protected from direct sun. During storage paraffin particles can be deposited. Therefore materials have to be stirred thoroughly before processing the mixture.
Please note the advice of our safety datasheet.

Industrial safety: Ensure sufficient ventilation during work. On processing, pay attention to the directives in the hazardous substances ordinance and to the indications of the Federal States Committee for industrial safety and safety engineering (LASI) as well as to our safety date sheets.

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VbF: A I

GISCODE: RMA 10

Taxnumber: 3208 2010

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