

Plastifloor® 522 N (GB)

Low-viscous, slightly blue
methacrylic resin for hard sealings

Characterization: Plastifloor® 522 N is a newly developed hard methacrylic resin of low viscosity that is preferably used as a sealer for Plastifloor® 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 Plastifloor® 510 and Plastifloor® 418.

Plastifloor® 522 N 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)
Density at 20°C	DIN 53217 1.00 g/cm ³
Flash point	DIN 51755 +10 °C
Curing time	20-30 minutes (20°C and 1% hardener)
Shelf life	dark at < 20 °C 6 months maximum

Application: Stir up well all Plastifloor® 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. Plastifloor® 522 N 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 Plastifloor® 522 N should not be applied onto coatings with Plastifloor® 332 as the coating's high flexibility in combination with the very hard sealer Plastifloor® 522 N 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 Plastifloor® 522 N, one has to reckon a reduced resistance when sealing coatings based on Plastifloor® 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 of 0.5 mm minimum or better a double application of Plastifloor® 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 Plastifloor® 522 N
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)	hardening time (min)
+ 5	2.0	app. 30	app. 45
+10	1.5	app. 20	app. 35
+20	1.0	app. 10	app. 22
+30	1.0	app. 8	app. 18

* Quantity is calculated on total formulation and hardener powder 50W.

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. Plastifloor 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.

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