

Low-viscosity, slightly bluish-coloured
Methacrylate resin for hard sealing

Characteristics: Plastifloor® 523 additive is a newly developed hard methacrylic resin of low viscosity that is preferably used as a sealer for Plastifloor® coatings to improve heavy mechanical and scratch resistance as well as maintenance. The main application areas are troweled industrial floors made of Plastifloor® 510 and Plastifloor® 418. Plastifloor® 523 advantages:

- Improved self-leveling
- Minimal yellowing
- Excellent chemical resistance
- Increased solvent resistance
- High thermal resistance
- High scratch resistance with Hardener/M
- Low tendency to stain

Characteristics of the resin and additive as delivered:

Plastifloor® 522

Property	Measuring method	Approx. value
Viscosity at 73 °F	DIN 53 015	70-120 mPa · s
Flow time at 68°F, 4 mm cup	DIN 53 211	26-32 sec
Density D ⁶⁸	DIN 51 757	0.93 g/cm ³
Pot life at 68°F	approx. 10 min	
Curing	20 - 30 min (at 68 °F and 1% hardener)	
Form of delivery	liquid, slightly violet	
Shelf-life	dark at <68°F 6 months maximum	
Bundle	180 kg drums 25 kg, 10 kg pails	

Plastifloor® Additive 523

Property	Measuring method	Approx. value
Flash point	ISO 2719	> 275 °F
Water solubility at 77 °F	OECD Test Guideline 105	15 mg/l
Surface tension at 68 °F	OECD Test Guideline 115	38.6mN/m
Viscosity at 68 °F		1.280 mPa · s
Relative density at 73 °F		1.109
Form of delivery	Liquid, colorless to light yellow	
Shelf-life	6 Months, Storage temperature: < 113 °F	
Bundle	10 kg, 5 kg cans	

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Processing notes:

Processing: Stir up well all Plastifloor® resins before use! Pour the required amount into a mixing pail and stir in Plastifloor® Additive 523 for approx. 1 minute using a suitable agitator. After stirring in the Plastifloor® Hardener 50 W (1 min), the sealer is poured out onto the floor and immediately distributed evenly.

Plastifloor® 523 is preferably applied crosswise with short hair rollers (mohair) in a layer thickness of up to 0,016 inch max (~ 0,01 gal/ft²).

The layer thickness must be at least 0,008 inch (0,005 gal/ft²) and should not exceed 0.0197 inch (0.012 gal/ft²) for 2 coats – depending on the desired finish (smooth or coarse).

Scratch and water resistance can be ameliorated by using Hardener/M. Hardener/M leads to a mat surface. Please refer to the product data sheet.

Mixing approach:

2,11 gal Plastifloor® 522
0,11 gal Plastifloor® Additive 523
2,71 oz Plastifloor® Hardener 50 W
(5,41 oz Plastifloor® Hardener/M)

Material consumption/mm:

0,007 – 0,012 gal/ft²

Curing time: Continue the coating work only after full hardening of the previous layer.

Temperatur [°F]	Hardener [Vol%]	Hardener [wt%]	Pot life [min]	Curing time [min]
+ 41 to +50	2.0	1.3	approx. 35	approx. 50
+50 to +68	1.5	1.0	approx. 30	approx. 40
+68 to +77	1.0	0.6	approx. 25	approx. 35
+77 to +86	1.0	0.6	approx. 20	approx. 30

- Hardener quantity calculated on amount of Plastifloor® 523 (Hardener 50 W)
- The temperature specifications are based on resin, soil and air temperature

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Attention:

At temperatures below 32°F, the resin must be placed in a warm environment prior to use - minimum 41°F and up to 2% hardener added. Generally, accelerators cannot be added to sealers – either as thinner or as an accelerator – due to yellowing issues.

**Additional
Information:**

Sealings with Plastifloor® 523 should not be applied on top of coatings with Plastifloor® 332, because the high flexibility of the coating in combination with the very hard sealer Plastifloor® 523 can lead to cracks under load. Hardener concentrations of > 2 % may cause discoloration (yellowing). Furthermore, a waiting time of about 2 hours between the curing of the coating and the application of the sealer has proven to be effective.

In spite of the good chemical resistance of Plastifloor® 523, a reduced resistance must be taken into account when sealing coatings based on Plastifloor® 418 or 510. With these solvents (under continuous load), a swelling by diffusion may occur after some time.

This process depends on the thickness of the sealer. In these cases, we recommend a minimum thickness of 0.02 inch minimum or better a double application of Plastifloor® 523.

Storage:

The handling regulations for highly flammable materials apply to methacrylate – resins. Plastifloor® resins should be stored cool, away from direct sunlight and preferably at temperatures between 59 - 68 °F (15 – 20 °C). During storage, paraffin particles and fillers may precipitate. Therefore, containers must be well agitated before use. Please refer to our Safety Data Sheets.

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PLASTI CHEMIE
International GmbH

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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	
Plasti Chemie International GmbH • Falgarding 1 • 08223 Falkenstein • Germany	
EN 13813, SR-B2, 0-AR0, 5-IR12	
Plastifloor® 523 Additive	
Synthetic resins for internal uses (Application in accordance with the newest technical information)	
Reaction to fire:	E _n
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.

26.06.2026

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