

Plastifloor® 527 Additive (USA)

Medium viscous methacrylate resin for sealing
Plastifloor® coatings in wet areas of the
food industry

Characteristics: Plastifloor® 527 is a top coat, especially for sanded and smoothed floors based on Plastifloor® 332, Plastifloor® 510 or Plastifloor® 418 in food industry production plants with increased water and grease load. Plastifloor® 527 is characterized by:

- Good self-leveling
- Low yellowing tendency
- Increased resistance to water up to 176 °F
- Increased acid and alkalis resistance

Characteristic of the resin and additive as delivered:

Plastifloor® 526

Property	Measuring method	Approx. value
Viscosity at 73 °F	DIN 53 015	100-140 mPa · s
Flow time at 68°F, 4 mm cup	DIN 53 211	30-40 sec
Density D ⁶⁸	DIN 51 757	0.95 g/cm ³
Pot life at 68°F	ca. 12-15 min	
Curing	30-40 min (at 68 °F and 1% hardener)	
Form of delivery	liquid, slightly bluish	
Shelf-life	dark at <68°F 6 months maximum	
Bundle	180 kg drums	
	25 kg, 10 kg pails	

Plastifloor® Additive 527

Property	Measuring method	Approx. value
Flash point	ISO 2719	> 284 °F
Water solubility at 77 °F	OECD Test Guideline 105	6-80 mg/l
Surface tension at 68 °F	OECD Test Guideline 115	51.4 mN/m / 30mg/l
Viscosity at 68 °F		21.000 mPa · s
Relative density at 73 °F		1.196
Form of delivery	Liquid, yellowish	
Shelf-life	6 Months, Storage temperature: < 113 °F	
Bundle	10 kg, 5 kg cans	

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Processing notes:

Processing:

Stir up all Plastifloor® resins well before use! Pour the required amount into a mixing pail and stir in Plastifloor® Additive 527 for approx. 1 minute by 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.

For best results, use 0,017 gal/ft² by roller step with short hair (polyamide gold stripe) on sand broadcast coatings (15 - 30 mesh grain).

For proper cure, at least 0,010 gal/ft² of sealer must be applied per rolling step. To maintain slip resistance and to prevent yellowing and flaking, the maximum layer thickness is limited to 0,019 gal/ft².

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

Mixing approach:

2,11 gal Plastifloor® 526
0,11 gal Plastifloor® Additive 527
2,71 oz Plastifloor® Hardener 50 W
(5,41 oz Plastifloor® Hardener/M)

Material

consumption/mm: 0,010 – 0,017 gal/ft²

Curing time:

Wait for the previous coat to fully cure before proceeding with the next coat.

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

Hardener quantity calculated on amount of Plastifloor® 527 (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:

Plastifloor® 527 can be used as clear sealer indoors and outdoors. Elastic coatings with Plastifloor® 332 should be sealed with Plastifloor® 528 PUMMA-Hybrid in exterior areas. Otherwise hair-line cracks may appear on the surface. To avoid yellowing, the hardener quantities in the table must be strictly adhered to. Good cross-ventilation during application ensures good curing. A good cross ventilation during application will ensure a good cure.

Due to the thermoplastic nature of MMA-resins, black streaks (skid marks) may appear during forklift loading. The use of hardener/M reduces the occurrence of skid and roller marks.

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.

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.

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PLASTI CHEMIE
International GmbH

Medium viscous methacrylate resin for sealing
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VbF: A I
GISCODE: RMA 10
HS-Code: 3208 2010

CE	
Plasti Chemie Produktionsgesellschaft mbH • Falgarding 1 • 08223 Falkenstein • Germany	
EN 13813, SR-B2, 0-AR0, 5-IR12	
Plastifloor® 527 Additive	
Synthetic resins for internal uses (Application in accordance with the newest technical information)	
Reaction to fire:	E ₁
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.

15.01.2025

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