

# Plastifloor® 418 (USA)

Medium-viscous, flexible methacrylic resin for producing interspersed or trowel on 2-component floor coatings on concrete and metal substrate inside buildings.  
For wet and dry areas.

**Application** Plastifloor® 418 is ideal for producing interspersed or trowel floor coatings and as floor coating with partly flakes.

**Properties:** Coatings with Plastifloor® 418 are characterized by high filling power and good self-leveling. Due to its good wetting properties for fillers and pigments, Plastifloor® 418 is preferably used for the production of self-levelling coatings with layer thicknesses of 5 – 10 mesh (2-4 mm). Interspersed systems, roll-on and trowel-on on systems are also possible. Thus Plastifloor® 418 is a universal methacrylic resin.

## Characteristic of the resin as delivered:

Property	Measuring method	Approx. value
Viscosity at 73 °F	DIN 53 015	180-220 mPa · s
Flow time at 68°F, 4 mm cup	DIN 53 211	40-60 sec
Density D <sup>68</sup>	DIN 51 757	0.91 g/cm <sup>3</sup>
Pot life at 68 °F		ca. 8 min
Curing		15-25 min at 68°F
Form of delivery		liquid, blue
Shelf-life		6 months at <68°F in originally closed packaging
Bundle		180 kg drums 25 kg, 10 kg pails

## Characteristic of the resin in the hardened state:

Property	Measuring method	Approx. value
Strain at break	EN ISO 527	~89%
Tensile strength	EN ISO 527	~10 MPa
E-modul	EN ISO 527	12 MPa
Water absorption, 4 days	DIN 53 495	0 mg
Shore-D	DIN 53 505	40-70 Units

**Initiator/hardener:** Hardening powder 50W (BPO), temperature-dependent

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## Processing Notes:

### Suggested formulation:

#### *Self-levelling coating*

1.98 gal Plastifloor® 418®
1.98 gal SL Filler
5.07 oz Hardener 50 W (68°F)

#### *Trowel-on coating*

1.98 gal Plastifloor® 418®
55.12 lb decor Filler S1 - S12
5.07 oz Hardener 50 W (68°F)

### Processing:

Plastifloor® 418 is applied with a squeegee. Then plane with a smooth trowel. After curing, the surface is being grinded with a disk sander and then Plastifloor® 522 is applied as a clear sealing in dry areas. In wet areas with varying thermal loads, Plastifloor® 526 is being used.

### **Pot life and curing times depending on temperature:**

Temperatur [°F]	Hardener [Vol%]	Hardener [wt%]	Pot life [min]	Curing time [min]
+ 41	4.0	2.6	ca. 10	ca. 23
+ 50	3.0	2.0	ca. 8	ca. 20
+ 68	2.5	1.6	ca. 8	ca. 18
+ 86	2.0	1.3	ca. 6	ca. 15

Hardener referred to quantity of Plastifloor® 418

### **Attention:**

Hardener levels below 1 vol.% can cause polymerisation failures!

### **Notes:**

Apply to pre-primed surfaces only! Good room ventilation during application will ensure good curing.

### **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

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**PLASTI CHEMIE**  
**Produktionsgesellschaft mbH**

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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.

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

CE	
Plasti Chemie Produktionsgesellschaft mbH • Falgardring 1 • 08223 Falkenstein • Germany	
EN 13813, SR-B2, 0-AR0, 5-IR12	
Plastifloor® 418	
Synthetic resins for internal uses (Application in accordance with the newest technical information)	
Reaction to fire:	E <sub>0</sub>
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.

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**Plasti Chemie Produktionsgesellschaft mbH**  
Falgardring 1  
D – 08223 Falkenstein / Germany

Telefon: +49 (0) 37 45 / 744 32-0  
Telefax: +49 (0) 37 45 / 744 32-27

Email: [info@plasti-chemie.de](mailto:info@plasti-chemie.de)  
Internet: [www.plasti-chemie.de](http://www.plasti-chemie.de)