# Plastifloor® 118 (USA)

Special adhesive primer
for use on damp or new concrete substrates

PLASTI CHEMIE International GmbH

**Application** Plastifloor® 118 is used as a special primer coat for damp or new concrete substrates.

**Characteristics:** Plastifloor® 118 is a low viscosity, 2 component reactive methacrylate resin that also cures fast at low temperatures.

It has very good adhesion to damp concrete and cementitious based substrates.

## Properties of the Resin Supplied:

| Property | Test method | Approx. value |
|---|---|---|
| Viscosity at 73 °F | DIN EN ISO 2555 | 100-130 mPa · s |
| Flow time at 68°F, 4 mm cup | DIN EN ISO 2431 | 30-40 s |
| Density $D^{68}$ | DIN EN ISO 1183-1 | 8.26 lb/gal (0.99 g/cm$^3$) |
| Pot Life at 68 °F | approx. 8 min | |
| Cure Time | approx. 20 min at 68°F | |
| Appearance | liquid, white | |
| Shelf Life | 6 months at < 68°F in originally closed packaging | |
| Packaging | 397 lb (180 kg) drums<br>55.1 lb (25 kg), 22.0 lb ( 10 kg ) pails | |

## Properties of the Cured Resin:

| Property | Test method | Approx. value |
|---|---|---|
| Elongation at break | DIN EN ISO 527 | ~3% |
| Tensile strengh | DIN EN ISO 527 | ~ 2,900 psi (20 MPa) |
| Elastic Modulus | DIN EN ISO 527 | 116 ksi ( 800 MPa ) |
| Water absorption, 4 Days | DIN EN ISO 53 495 | 200 mg |
| Shore-A hardeness | DIN EN ISO 7619-1 | 90-100 |
| Shore-D hardeness | DIN EN ISO 7619-1 | 60-85 |

Initiator/Hardener: Hardener powder 50W(BPO), depending on temperature

## Processing Notes:

Processing: Plastifloor® 118 is suitable for damp concrete and cementitious substrates. There must be no visible water on the surface. The surface must be firm, solid and free of dust, grease and oil.



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Plastifloor® 118 can be applied with Plastifloor® Hardener 50 W. The amount of hardener must be adjusted to the respective object temperature (see table). At temperatures below + 32°F (0°C), accelerator B101 can be added in addition must be added ~ 0.5 % at 32 °F (0°C) up to 3 % at - 22 °F (-30°C) with retention of 6 % hardener powder.

After mixing in the hardener powder, distribute Plastifloor® 118 evenly and thinly with a roller or rubber squeegee. Apply at a rate of between 140 ft²/gal (300 gr/m²) and 70 ft²/gal (600 gr/m²) depending on the density and porosity of the substrate. In all cases, continue to apply the primer until saturation occurs to obtain a continuous resin film. On extremely porous, absorbent substrates, apply two coats of primer to obtain a thin but continuous film that bonds the broadcast material. It is recommended to slightly broadcast the primer with quartz sand (size 15 - 25 mesh). If only thin sealers are to be applied, we recommend using 20 - 40 mesh quartz sand. This work step ensures an absolutely solid bond between primer and the following coating.

Suggested formulation:

| |
|---|
| 2.11 gal primer Plastifloor® 118 |
| 8.1 fl oz hardener 50 W at 68°F substrate temperature |

Amount of Hardener depending on temperature:

Further coats of Plastifloor® must be applied only after the previous coat has completely cured.

| Temperatur [°F] | Hardener [Vol%] | Hardener [wt%] | Pot life [min] | Curing time [min] |
|---|---|---|---|---|
| + 32.0 | 6.0 | 4.0 | approx. 15 | approx. 40 |
| + 41.0 | 5.0 | 3.3 | appox. 10 | approx. 35 |
| + 50.0 | 4.0 | 2.6 | approx. 10 | approx. 30 |
| + 59.0 | 3.5 | 2.3 | approx. 10 | approx. 30 |
| + 68.0 | 3.0 | 2.0 | approx. 8 | approx. 20 |
| + 77.0 | 2.0 | 1.3 | approx. 5 | approx. 20 |

- Temperature refers to resin, surface and air temperature.



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**Attention:** Hardener quantities below 1 % by weight may cause polymerisation failures!

**Storage:** Plastifloor® methacrylate resins are highly flammable and must be handled accordingly. Store in a cool place, away from direct sunlight, preferably at 59 - 68 °F (15 – 20 °C). During storage, paraffin particles and fillers may settle. Therefore, containers must be thoroughly mixed before use. Please refer to the current Safety Data Sheet.

**Industrial safety:**

Provide adequate ventilation during application.Follow all applicable regulations for the handling of hazardous materials and observe the safety precautions provided in the current Safety Data Sheet ( SDS )

**HS-Code:** 3208 2010

**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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