

Special adhesive primer
for use on damp or new concrete substrates

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.

Characteristic of the resin as delivered:

Property	Measuring method	Approx. value
Viscosity at 73 °F	DIN 53 015	100-130 mPa · s
Flow time at 68°F, 4 mm cup	DIN 53 211	30-40 sec
Density D ⁶⁸	DIN 51 757	0.99 g/cm ³
Pot life at 68 °F		ca. 8 min
Curing		ca. 20 min at 68°F
Form of delivery		liquid, white
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	~3%
Tensile strength	EN ISO 527	~ 20 MPa
E-modul	EN ISO 527	749 MPa
Water absorption, 4 days	DIN 53 495	200 mg
Shore-D	DIN 53 505	60-85 Units

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.

Special adhesive primer
for use on damp or new concrete substrates

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 gal primer Plastifloor® 118
5,1 – 6,5 oz (2 - 2,5 Vol.-%) hardener 50 W at 68°F substrate temperature

Material consumption/mm: 140 ft²/gal (300 gr/m²) - 70 ft²/gal (600 gr/m²) per Work step

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	ca. 15	ca. 40
+ 41.0	5.0	3.3	ca. 10	ca. 35
+ 50.0	4.0	2.6	ca. 10	ca. 30
+ 59.0	3.0	2.0	ca. 10	ca. 30
+ 68.0	2.0	1.3	ca. 8	ca. 20
+ 77.0	1.0	0.7	ca. 5	ca. 20

Temperature refers to resin, surface and air temperature.

Special adhesive primer
for use on damp or new concrete substrates

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

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.

Plastifloor® 118 (USA)

PLASTI CHEMIE
Produktionsgesellschaft mbH

Special adhesive primer
for use on damp or new concrete substrates

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

	
Plasti Chemie Produktionsgesellschaft mbH • Falgardring 1 • 08223 Falkenstein • Germany	
EN 13813, SR-B2, 0-AR0, 5-IR12	
Plastifloor® 118	
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.

13.01.2025

4 / 4