

Description Plastifloor® 115 B is a low-viscosity, two-component and fast-curing resin based on polymethyl methacrylate (PMMA), that cures quickly even at low temperatures.

Application Plastifloor® 115 B is used as a primer, sealer or scratch coat on concrete highway bridge decks. Suitable for overlay with bitumen waterproofing membranes under asphalt surfacing.

Properties and Advantages:

- Quick and easy Application
- Fast curing, even at very low temperatures
- Heat resistant (laying the bitumen membrane with open flame, asphalt)
- Can be used with bituminous weld lines after 2 hours
- Suitable for use on "young" concrete
- Excellent adhesion to many substrates
- Hydrolysis and alkali resistant
- Solvent free

Package : 25 kg, 10 kg Pails

Technical Data:

Property	Measuring method	Approx. value
Viscosity at 23 °C	ISO 2555	120-160 mPa · s
Density D ²³	ISO 2811	1 g/cm ³
Flash Point	DIN 51755	10°C
Pot life / processing time at 20°C		ca. 12 min
Curing at 20°C		ca. 30-45 min
Colour		redlich
Shelf-life		12 months at < 20 °C in originally closed packaging

Application

Information : Stir the container contents thoroughly before use. Plastifloor® 115 B can be processed with Plastifloor® Hardener 50 W. The amount of hardener must be adjusted to the respective object temperature (see table). The reaction time of the system depends on the surface temperature, which must be measured and documented in advance. The amount of hardener powder to be added depends on this surface temperature.

Required amounts of hardener

Temperatur [°C]	Plastifloor® Hardener 50 W [w/w.-%]
0 - 5	6.0
5 - 10	5.0
10 - 15	4.0
15 - 20	3.0
20 - 25	2.0
25 - 35	1.0
Conversion:	1 cm ³ Plastifloor® Hardener 50 W = 0,64 g
	1 g Plastifloor® Hardener 50 W = 1,57 cm ³

Primer on concrete

Pour approx. 300 - 500 g/m² of the mixed Plastifloor® 115 B onto the surface and then distribute it with a rubber squeegee. Use a sheepskin roller to go over the area for an even finish. Avoid creating puddles of primer. Cover the fresh primer with an even layer of 0.3 - 0.8 mm quartz sand, max. 0,8 kg/m². Avoid over spraying. Remove unabsorbed quartz sand after the primer has cured.

Sealer on concrete

According to ZTV-ING Part 7, Section 1

Pour at least 400 g/m² of the mixed Plastifloor® 115 B onto the surface and then distribute it with a rubber squeegee. Use a sheepskin roller to go over the area for an even finish. Avoid creating puddles of primer. Cover the fresh primer with an even layer of 0.7 - 1.2 mm quartz sand (max 1 kg/m²). Avoid over spraying. Remove unabsorbed quartz sand after the primer is cured.

Afterwards Plastifloor® 115 B can then be applied to the primed area as a sealer. Use a rubber squeegee and a sheepskin roller to spread at least 600 g/m² over the area. Do not cover the surface with quartz sand.

Scratch coat on concrete

Before applying the scratch coat, the concrete surface must be primed with approx. 400 g/m² of Plastifloor® 115 B, In this case, no primer is required.

According to ZTV-ING, a roughness depth of the prepared concrete of ≥ 1.5 mm must be levelled with a scratch coat made from Plastifloor® 115 B and Plastifloor® aggregates.

The surface of the scratch coat should be sprinkled with fire-dried quartz sand of grain size 0.3 - 0.8 (max 800 g/m²). Avoid overspraying. Non-incorporated quartz sand should be removed after curing of the scratch coat. The consumption of a scratch coat depends on the roughness depth of the concrete surface.

Working on at least 7 days old concrete

The concrete surface must be dry. Dryness is tested by local heating with a hot air blower. Damp concretes are much lighter. Do not work in this case.

The 7-day old concrete surface is to be treated according to the section "sealer on concrete".

Air temperature: - 5°C min. / + 35°C max.

Humidity: Maximum 90%

Dew point: The substrate temperature must be at least 3 °C above the dew point of the ambient air during application and curing.

Substrate Temperatur: - 5°C min. / + 35°C max.

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Substrate Humidity: The surface to be coated must be dry. <4% humidity

Processing Notes:

Substrate preparation:

The primer must only be applied to a prepared substrate. Please refer to the appropriate application instructions for information about proper surface preparation.

Mixing:

First stir the container contents thoroughly.
Then add the Plastifloor® Hardener 50 W while stirring at the low speed setting and mix for 1 minute. Make sure that the product is mixed into the bottom and sides of the container.
At product temperatures < 5 °C the product should be stirred for 3 minutes, as the hardener takes longer to dissolve.

Applying:

After the hardener has been stirred in, the primer is poured onto the substrate in stripes and distributed with a rubber squeegee. Use a sheepskin roller to go over the area for an even finish. Avoid creating puddles of primer. In all cases, continue to apply primer until saturation occurs to obtain a continuous resin film.

Storage:

Methacrylate resins are subject to the handling regulations of highly flammable materials. Plastifloor® resins must be stored cool, at temperatures between 15 – 20° C and protected from direct sunlight. Paraffin particles may be deposited during storage. Therefore, materials must be stirred thoroughly before processing. Please follow the instructions in our Safety Data Sheet.

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® 115 B	
Synthetic resins for internal uses (Application in accordance with the newest technical information)	
Reaction to fire:	E _κ
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.