

## Plastifloor® 115 B

Solvent-free PMMA resin for primer, sealer or scratch coat  
for concrete roadway panels

**Description** Plastifloor® 115 B is a low-viscosity, 2-component and fast-curing resin based on polymethyl methacrylate (PMMA), which 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 overlaying with bitumen waterproofing membranes under asphalt surfacing.

### Properties and advantages

- Easy and fast application
- Fast curing, even at very low temperatures
- Heat-resistant (laying the bitumen membrane with open flame, asphalt)
- Already after 2 hours with bitumen welding track assignable
- Suitable for use on "young" concrete
- Excellent adhesion to many types of substrate
- Hydrolysis- and alkali-resistant
- Solvent-free

**Packaging** 25 kg, 10 kg pails

### Technical data

Colour	reddish	
Viscosity, 25°C	120-160 mPa*s	ISO 2555
Density, 23°C	ca. 1 g/ml	ISO 2811
Pot life / processing time at 20°C	ca.12 min	
Curing time at 20°C	ca. 30 - 45 min.	
Flashpoint	10 °C	DIN 51755
Shelf life	12 months at < 20 °C in originally closed packaging	

### Application Information

First stir the container contents thoroughly. Plastifloor® 115 B can be processed with Plastifloor® Hardener 50 W. Hardener quantity must be adjusted to the respective object temperature (see table). The reaction times of the system depends on the surface temperature, which has to be measured and documented in advance. Depending on this surface temperature, the amount of hardener powder to be added depends.

### Required amounts of hardener

Temperature [°C]	Plastifloor® Hardener 50 W [w/w.-%]
- 5	6
5 - 10	5
10 - 15	4
15 - 20	3
20 - 25	2
25 - 35	1

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Conversion: 1 cm<sup>3</sup> Plastifloor® Hardener 50 W = 0,64 g  
1 g Plastifloor® Hardener 50 W = 1,57 cm<sup>3</sup>

### Primer on concrete

Pour approx. 300 - 500 g/m<sup>2</sup> 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. Top the fresh primer with an even layer of 0.3 - 0.8 mm quartz sand, max. 0,8 kg/m<sup>2</sup>. Sprinkling in excess must be avoided. Non-incorporated quartz sand is to be removed after curing of the primer.

### Sealer on concrete

In accordance with ZTV-ING part 7, section 1

Pour at least 400 g/m<sup>2</sup> 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. Top the fresh primer with an even and max 1 kg/m<sup>2</sup> amount of 0.7 - 1.2 mm quartz sand. Sprinkling in excess must be avoided. Non-incorporated quartz sand is to be removed after curing of the primer.

Afterwards Plastifloor® 115 B can be applied to the primed area as a sealer. Use a rubber squeegee and sheepskin roller to spread at least 600 g/m<sup>2</sup> over the area. The surface is not topped with quartz sand.

### Scratch coat on concrete

Before applying the scratch coat, the concrete surface must be primed with approx. 400 g/m<sup>2</sup> Plastifloor® 115 B, a sprinkling of primer omitted in this case.

According to ZTV-ING, a roughness depth of the prepared concrete of  $\geq 1.5$  mm is to be equalized with a scratch coat made from Plastifloor® 115 B and Plastifloor® aggregates.

The surface of the scratch coat shall be sprinkled with fire - dried quartz sand of grain size 0.3 - 0.8 (max 800 g/m<sup>2</sup>). Sprinkling in excess must be avoided. Non-incorporated quartz sand is to 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. The dryness is tested by local heating with a hot air blower. Moist concretes are significantly lighter. In this case, you must not work.

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

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<b>Air temperature</b>	- 5°C min. / + 35°C max.
<b>Humidity</b>	Maximum 90%
<b>Dew point</b>	The substrate temperature must be at least 3 °C above the dew point of the ambient air during application and curing.
<b>Substrate temperature</b>	- 5°C min. / + 35°C max.
<b>Substrate Humidity</b>	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 guide for information about correct surface preparation.

Mixing First stir the container contents thoroughly.  
Then add the Plastifloor® Hardener 50 W while stirring at the slow-speed setting and mix for 1 minute. Make sure that the product on the base and sides of the container is mixed in.  
At product temperatures < 5 °C the product should be stirred for 3 minutes, as the Hardener will take 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 any case, continue applying primer until saturation occurs to obtain a continuous resin film.

**Storage:** The handling-regulations for highly flammable materials apply to methacrylate – resins. Plastifloor® resins are to be stored cool, protected against direct sunlight and preferably at temperatures of 15 – 20 °C. During storage paraffin – particles and filler – materials may precipitate. Thus, before processing, containers have to be stirred up well. Please mind the advice on our safety data sheets.

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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