

# Plastifloor® 800 BD Waterproofing

Medium viscous, urethane modified resin based on methyl methacrylate with high flexibility at very low temperatures.

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

**Application** Plastifloor® 800 BD Waterproofing is used as a Bridge Deck waterproofing membrane, onto which asphalt at temperatures up to 250°C can be directly applied. Furthermore, the domains of application for Plastifloor® 800 BD include:

- As grouting component for movement joints with very good low-temperature flexibility in outside sections. (Ice skating field joints)
- The waterproofing of Pedestrian and Vehicular trafficked areas.
- For the sub-grade waterproofing of Buildings and Civil Engineering Structures.
- The waterproofing of containment structures.
- Rebar waterproofing at subfloor constructions

**Characteristics** Plastifloor® 800 BD is a very flexible crack-bridging membrane that retains its flexibility and crack-bridging performance in service even when the temperature reaches -20°C and below.

- High flexibility at very low-temperatures (-20°C and below)
- High Elastic crack-bridging properties under a wide range of temperatures
- Excellent waterproofing properties
- Excellent adhesion to many types of substrate
- Good chemical and abrasion resistance
- Installation at temperatures down to -20°C
- Fast application / fast curing

Plastifloor® 800 BD Waterproofing membrane can be applied onto cementitious based screeds, concrete, filled bitumen/asphalt, metal, ceramic tile and even wood substrates.

## Technical data

Viscosity, 25 °C:		450 – 750 mPa*s
Curing time at 20 °C:		Approx. 60 min
Pot life at 20 °C:		Approx. 15 min
Density:	ISO 2811	1,3 g/ml
Flashpoint:	DIN 51755	10 °C
Shelf life:	6 months in originally closed packaging. The optimal storage temperature is 15-20°C	
Packaging:	25 kg units	

### Samples tested at 20 °C, clear resin

Shore D Hardness	EN ISO 868	40
Tensile strength	EN ISO 527	8.2 MPa
Elongation	EN ISO 527	381 %

### Samples tested at - 20 °C, clear resin

Tensile strength	EN ISO 527	21 MPa
Elongation	EN ISO 527	52 %

**Initiator/hardener** Plastifloor® Hardener 50W, depending on temperature

**Consumption** 4 kg/m<sup>2</sup> to ensure a dry film thickness of 3.25 mm on U4 surface structure. The coverage rate will vary with surface irregularity. The minimum thickness of the membrane of 1 mm (approx. 1.3 kg/m<sup>2</sup>) must be maintained in any case.

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**Processing Notes** Substrate preparation according ICRI Surface Preparation Guidelines. The area to be waterproofed must be dry, firm, solid and free of dust, fat and oil. Laitance and loose particles must be removed thoroughly, e.g. by shot blasting. Plastifloor® BD Waterproofing is applied onto the substrate, pre-primed with a suitable Plastifloor® Primer by using a lamb skin roller or squeegee and back roll it. Plastifloor® 800 BD Waterproofing is mixed with the corresponding amount of Plastifloor® Hardener 50W powder, in accordance with the following guidelines. Hardener quantity must be adjusted to the respective object temperature (see table). At temperatures below 0°C, accelerator B101 is additionally be added ~ 0.5% at 0°C up to 3 % at -30°C with retention of 6 Vol.% hardener powder. Dosage according to data sheet Plastifloor® Accelerator B101

#### Amount of Hardener depending on temperature:

Temperature [°C]*	Hardener in % by weight**	Hardener in % by volume**	Hardener addition for 25 kg pail**
- 5	4 % + accelerator B101	6 % + accelerator B101	1500 ml + accelerator B101
0	4 %	6 %	1500 ml
+10	2,5 %	4 %	1000 ml
+20	1,5 %	2,4 %	600 ml
+30	1 %	1,6 %	400 ml

\*) The temperature refers to the resin, floor and air temperature

\*\*) The hardener quantities refer to Plastifloor® 800 BD Waterproofing

Note: The stated values are based on laboratory tests. In practice, external influences may lead to deviations from these values.

#### Weight to Volumetric conversion of Hardener

1 cm<sup>3</sup> of Plastifloor® Hardener 50 W weighs 0.65 g

1 g of Plastifloor® Hardener 50 W = 1.54 cm<sup>3</sup>

**Attention:** Hardener quantities below 1 % by weight may cause polymerisation failures! Further coating layers with Plastifloor® must only be applied after the previous layers have completely cured.

**Thinner:** up to 5 Vol.-% Plastifloor® Accelerator 440

**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.

**VbF:** A I

**GISCODE:** RMA 10

**Customs Number:** 320 820 10

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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