Solutions based on H-PMMA

Triflex Bridge Deck Primer

Product information

Applications

Triflex Bridge Deck Primer is used for absorbent substrates on bridge deck boards made of concrete as per ZTV-ING, Part 6, Section 1 as a primer and seal with a PMMA resin base.

Properties

2-component primer with a polymethyl methacrylate resin (PMMA) base. Triflex Bridge Deck Primer offers the following features:

- Reacts quickly even with low temperatures
- Can still be applied when rel. humidity is high
- Compatible with standard torch-on bitumen membranes
- Heat-resistant when laying membrane with an open flame
- Bitumen welding membrane can be laid after only 50 min.
- Cured after 50 min.
- Solvent-free
- Initial testing as per TL/TP BEL-EP (1999)
  test report no. 190E-00031OR01-PB01 of the KIWA Polymer Institute
- Tested membrane Börner OK 50 PB02A
- Tested membrane Vedapont® BE PB02B

Pack sizes

Drum

Summer	Winter	
10.00 kg	10.00 kg	Triflex Bridge Deck Primer base resin
0.20 kg	0.60 kg	Triflex Catalyst (2 x / 6 x 0.10 kg)
10.20 kg	10.60 kg	

Container

Summer	Winter	
910.00 kg	910.00 kg	Triflex Bridge Deck Primer base resin
20.00 kg	60.00 kg	Triflex Liquid Catalyst (1 x / 3 x 20.00 kg)
930.00 kg	970.00 kg	

Colours

Bluish

Storage

Can be stored unopened and unmixed for approx. 6 months in a cool, dry place above freezing. Keep container away from direct sunlight when in storage and on the construction site.

Application instructions

Triflex Bridge Deck Primer can be applied at substrate and ambient temperatures between 0 °C and +35 °C. During application and curing, the substrate temperature must be at least +3 °C above the dew point temperature. Protect against condensation. In enclosed spaces, always ensure forced ventilation with a minimum of 7 air changes per hour.

Preparation of the substrate

The substrate must be prepared by milling or shot-blasting until it is sound, dry and free of loose or adhesion-reducing particles. Ensure that moisture cannot penetrate from underneath. Substrate adhesion must be tested on a case-by-case basis. Dryness must be tested through local heating in accordance with ZTV-ING Part 6.
Minimum tensile adhesion strength: 1.5 N/mm².

Use on asphalt is not permitted. For use on resin-modified mortars, an on-site compatibility test must be carried out.

During application, the surface temperature must be at least 3 °C above dew point. Below that, a separating film of moisture can form on the surface to be worked on (DIN 4108-5, table 1). See dew point temperature table.

Mixing instructions

After thoroughly mixing the base resin, add the correct quantity of catalyst and mix with a slow-running mixer until there are no more lumps. Stir for at least 3 min. Transfer to another receptacle and mix again.

Solutions based on H-PMMA

Triflex Bridge Deck Primer

Product information

Mixing ratio

At a temperature of:

Temperature	Catalyst added
0 °C	6 %
8 °C	4 %
23 °C	2 %
35 °C	1 %

Methods of application

Can be applied manually by roller or mechanically with the Triflex spray application machine.

Material consumption

On a smooth even surface

Priming on concrete:
Triflex Bridge Deck Primer is poured thickly onto the prepared concrete surface in a working step with min. 0.50 kg/m², spread with a cellular rubber spreader and rolled out evenly using a lambskin roller. The PMMA resin should be distributed so that material accumulations are prevented. While still fresh, the primer should be gritted with fire-dried quartz sand with a grain of 0.7–1.2 mm (max. 0.80 kg/m²). Under all circumstances, avoid over-gritting.

Sealing on concrete:
Structure in accordance with ZTV-ING, Part 6, Section 1.
In the first working step, the Triflex Bridge Deck Primer is applied in a volume of at least 0.50 kg/m². This layer of reactive resin must be sprinkled with fire-dried quartz sand with a grain of 0.7–1.2 mm and a volume of max. 0.80 kg/m² immediately after rolling. Under all circumstances, avoid over-gritting. Remove any gritting material that does not stick as soon as the curing state of this layer allows it. In a second working step, then apply the Triflex Bridge Deck Primer evenly in a volume of at least 0.60 kg/m², distributed in such a way that material accumulations are prevented so that the grit is evenly sprinkled and the surface is evenly rough and appears closed. This surface is not gritted.

Scratch coat on concrete:
Before applying the Triflex Bridge Deck SC (scratch coat), the concrete surface must be primed with at least 0.50 kg/m² of Triflex Bridge Deck Primer; in this case, there is no need to grit the primer. If the prepared concrete has a roughness depth of greater than or equal to 1.5 mm, it must be smoothed out with a scratch coat of Triflex Bridge Deck SC as per ZTV-ING. The surface of the scratch coat should be gritted with fire-dried quartz sand with a grain of 0.7–1.2 mm (max. 0.80 kg/m²). Under all circumstances, avoid over-gritting. Any gritting material which does not stick must be removed after the scratch coat has cured. The use of a scratch coat depends on the roughness depth of the concrete surface. The concrete surface must be dry. The dryness test is done through local heating with a hot-air fan or gun. Moist concretes will become much brighter here. In this case, no work must be carried out.

Top time

Approx. 15 min. at +20 °C

Drying time

Rainproof after:	approx. 25 min. at +20 °C
Can be walked on/ coated with same product after:	approx. 45 min. at +20 °C
Final strength after:	approx. 50 min. at +20 °C

Further instructions

Note on laying with a BASt-approved bitumen welding membrane. When laying the bitumen welding membrane, note that the burner flame must also be run over the surface of the PMMA resin. Only heating the underside of the membrane is not sufficient for joining the bitumen welding membrane and the PMMA surface. The designs in the design instructions for the tested membranes must be noted here

Information on particular hazards

See safety data sheet, section 2

Safety advice

See safety data sheet, section 7 and 8

Measures in case of fire or accidents

See safety data sheet, sections 4, 5 and 6

General information

We guarantee the consistently high quality of our products. Non-Triflex products must not be used with Triflex systems.

The advice we give in relation to the application of our products is based on extensive development and many years of experience, and is correct to the best of our knowledge. Given the wide variety of on-site requirements and conditions, the user is required to test the product's suitability for the particular purpose. Technical information is subject to change without notice in the interests of technical advancement or enhancement of our products.