

Solutions based on H-PMMA

# Triflex Bridge Deck SC



## Product information

### Applications

Triflex Bridge Deck SC is used as a system-tested scratch coat in the Bridge Deck System as per TL/TP-BEL – EP. It can be used with a roughness depth of up to 5 mm.

### Properties

2-component, unpigmented, prefabricated scratch coat with a polymethyl methacrylate resin (PMMA) base. Triflex Bridge Deck SC offers the following features:

- Fast-curing
- Solvent-free
- Rapidly resistant
- (Weather-resistant)
- Preset MV 1:4
- Removal of partial quantities possible
- 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.
- Initial testing as per TL/TP BEL-EP (1999)  
Test report no. 190E-000310R01-PB01 of the KIWA Polymer Institute

### Pack sizes

Drum

Summer	Winter	
25.00 kg	25.00 kg	Triflex Bridge Deck SC
<u>0.50 kg</u>	<u>1.50 kg</u>	Triflex Catalyst (5 x / 15 x 0.10 kg)
25.50 kg	26.50 kg	

### Colours

Transparent-yellowish

### 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 SC 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 7. Minimum tensile adhesion strength: 1.5 N/mm<sup>2</sup>.

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.

### Mixing ratio

At a temperature of:

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

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### Material consumption

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/m<sup>2</sup> 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 (max. 800 g/m<sup>2</sup>). 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.

### Information on particular hazards

See safety data sheet, section 15

### Safety advice

See safety data sheet, section 15

### 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.

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