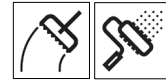


## Technical Data Sheet

# StoPox TEP MultiTop

Crack-bridging epoxy-polyurethane hybrid coating for increased protection; tested surface protection systems for traffic structures



### Characteristics

- Area of application**
- Suitable for Interior / Exterior
  - As a coating for floor areas subject to vehicle traffic in multi-storey car parks and underground car parks
  - As the main effective surface protection layer
  - As a wearing course in the surface protection system
  - As a flexible polyurethane waterproofing membrane and epoxy wearing coat in one product

- Properties**
- Resistant to oils
  - Resistant to fuels
  - High wear resistance
  - Dynamic crack bridging

- Information/notes**
- Product is in accordance with EN 1504-2
  - Product is in accordance with EN 13813

### Technical Data

Criteria	Standard / test specification	Value / Unit	Notes
Density	EN ISO 2811	1.16 - 1.23 g/cm <sup>3</sup>	
Adhesion strength	ASTM D7234	> 1.5 N/mm <sup>2</sup>	
Shore A hardness	ASTM D2240	88 - 94	
Viscosity	EN ISO 3219	4,000 - 6,000 mPa.s	

The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

### Substrate

- Requirements**
- The substrate must be sound, dry, load-bearing and free from native and foreign substances that have a separating effect. Remove less strong layers and laitance. The maximum moisture content of the substrate should not exceed 4% by weight measured with the CM device.
- Substrate temperature higher than +10°C and 3 K above dew point.
- Average adhesion strength > 1.5 N/mm<sup>2</sup>. Adhesion strength of the single smallest value 1.0 N/mm<sup>2</sup>

- Preparations**
- Prepare the substrate using a suitable mechanical process such as shot-blasting, milling and then shot-blasting, or abrasive blasting.

### Application

- Application temperature**
- Lowest application temperature: +12°C  
 Highest application temperature: +30°C  
 Maximum approved relative humidity 85%

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### StoPox TEP MultiTop

<b>Time for application</b>	At +12°C : approx. 75 minutes At +23°C : approx. 45 minutes At +30°C : approx. 25 minutes	
<b>Mixing ratio</b>	Component A : Component B = 100 : 22.2 parts by weight	
<b>Material preparation</b>	<p>Component A and Component B are supplied in the correct mixing ratio and should be mixed in accordance with the following instructions.</p> <p>Stir Component A, then add all of Component B. Mix thoroughly with a slow-running paddle mixer (max. 300 rpm) until a homogeneous, streak-free compound develops.</p> <p>It is also vital to stir thoroughly at the sides and the bottom in order to evenly distribute the hardener. Mixing time at least 3 minutes.</p> <p>Do not apply from the delivery container! After mixing, transfer the material into a clean container and stir it thoroughly once again. The temperature of the individual components must be min. +15°C when mixing.</p>	
<b>Consumption</b>	Type of application	Approx. consumption
	As a elastic membrane layer (Crack-bridging)	1.9 - 2.5 kg/m <sup>2</sup>
	As a wearing course	1.9 kg/m <sup>2</sup>
	Material consumption depends on the application, substrate, and consistency, among other factors. The stated consumption values are only to be used as a guide. If required, determine precise consumption values on the basis of the specific project.	
<b>Coating build-up</b>	<p><b>Crack-bridging build-up with two layers (Exposed Deck)</b></p> <ol style="list-style-type: none"> <li>1) Prepare the substrate.</li> <li>2) Prime coating of StoPox GH 205</li> <li>3) Scatter of StoFiller 30/60</li> <li>4) Apply a crack-bridging, elastic membrane layer of StoPox TEP MultiTop</li> <li>5) Apply a wearing course of StoPox TEP MultiTop</li> <li>6) Scatter of StoFiller 16/30</li> <li>7) Sealing coat of StoPox DV 100</li> </ol> <p><b>Crack-bridging build-up with one layer (Intermediate Deck)</b></p> <ol style="list-style-type: none"> <li>1) Prepare the substrate.</li> <li>2) Prime coating of StoPox GH 205</li> <li>3) Scatter of StoFiller 30/60</li> <li>4) Apply a crack-bridging wearing course in one application cycle : StoPox TEP MultiTop</li> <li>5) Scatter of StoFiller 30/60</li> <li>6) Sealing coat of StoPox DV 100</li> </ol>	
<b>Application</b>	<p><b>Crack-bridging build-up with two layers (Exposed Deck)</b></p> <ol style="list-style-type: none"> <li>1) Prepare the substrate.</li> <li>2) Prime coating Prime coat with StoPox GH 205. Apply in flood coat using a rubber squeegee and distributed evenly by rolling down to ensure complete sealing of all substrate pores. Avoid puddle formation. Consumption: approx. 0.20 – 0.30 kg/m<sup>2</sup>, depending on substrate and application conditions. Recommendation: Apply a scratch coat for roughness depths &gt; 0.5 mm.</li> </ol>	

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### StoPox TEP MultiTop

- 3) Scatter  
Scatter the fresh prime coating grain by grain and without excess with StoFiller 30/60.  
Consumption: approx. 0.5 - 1.0 kg/m<sup>2</sup>  
Note: Remove the unbound quartz sand on the following day.
- 4) Apply a crack-bridging elastic membrane layer  
Apply StoPox TEP MultiTop unfilled without quartz sand as a self-levelling layer using a rake or rubber squeegee to desired layer thickness of at least 1.5 mm.  
Rework the product in a criss-cross pattern with a spiked roller to remove any entrapped air.  
Consumption: approx. 1.9 – 2.5 kg/m<sup>2</sup>  
Note: Use spiked soles with blunt nails during scattering or de-airing to prevent damage to the membrane.
- 5) Applying a wearing course:  
Between 12 – 24 hours, mix 1.0 parts by weight of StoPox TEP MultiTop and 0.2 parts by weight of StoFiller 30/60 and apply to the desired coating thickness.  
Consumption of StoPox TEP MultiTop: approx. 1.9 kg/m<sup>2</sup>  
Consumption of StoFiller 30/60: approx. 0.4 kg/m<sup>2</sup>
- 6) Scatter:  
Scatter the surface in excess with StoFiller 16/30.  
Recommendation: Scatter heavily stressed surfaces according to the grain size  
Consumption of StoFiller 16/30: approx. 4-6 kg/m<sup>2</sup>
- 7) Sealing coat:  
After removing any excess sand, apply a coat of StoPox DV 100 using a short-pile roller or rubber squeegee. Apply the product evenly in a criss-cross pattern.  
De-air using a spiked roller by rolling in a criss-cross pattern.  
Consumption: approx. 0.6-1.0 kg/m<sup>2</sup>, depending on the scattering  
Note: Depending on the colour and finishing power, two applications may be necessary

#### Crack-bridging build-up with one layer (Intermediate Deck)

- 1) Prepare the substrate.
- 2) Priming:  
Prime coat with StoPox GH 205.  
Apply in flood coat using a rubber squeegee and distributed evenly by rolling down to ensure complete sealing of all substrate pores. Avoid puddle formation.  
Consumption: approx. 0.20 – 0.30 kg/m<sup>2</sup>, depending on substrate and application conditions.  
Recommendation: Apply a scratch coat for roughness depths > 0.5 mm.
- 3) Scatter:  
Scatter the fresh prime coating grain by grain and without excess with StoFiller 30/60.  
Consumption: approx. 0.5 - 1.0 kg/m<sup>2</sup>  
Note: Remove the unbound quartz sand on the following day.
- 4) Apply a crack-bridging wearing course:  
Between 12 – 24 hours, mix 1.0 parts by weight of StoPox TEP MultiTop and 0.2 to 0.4 parts by weight of StoFiller 30/60 or StoFiller 16/30 and apply to the desired coating thickness.  
Consumption of StoPox TEP MultiTop: approx. 1.9 - 2.5 kg/m<sup>2</sup>  
Consumption of StoFiller 30/60: approx. 0.5 - 1.0 kg/m<sup>2</sup>  
Consumption of StoFiller 16/30: approx. 1.0 kg/m<sup>2</sup>

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Note: The filling degree can be adjusted for inclinations > 2% due to climate conditions.

- 5) Scatter:
  - Scatter the surface in excess with StoFiller 16/30.
  - Recommendation: Scatter heavily stressed surfaces according to the grain size
  - Consumption of StoFiller 16/30: approx. 4-6 kg/m<sup>2</sup>
- 6) Sealing coat:
  - After removing any excess sand, apply a coat of StoPox DV 100 using a short-pile roller or rubber squeegee. Apply the product evenly in a criss-cross pattern.
  - De-air using a spiked roller by rolling in a criss-cross pattern.
  - Consumption: approx. 0.6-1.0 kg/m<sup>2</sup>, depending on the scattering
  - Note: Depending on the colour and finishing power, two applications may be necessary

### Notes

- 1) Damp and not fully cured substrates lead to damage.
- 2) Substrate temperature, ambient temperature:
  - In addition to the ambient temperature, the substrate temperature is vital for the application of reaction resins.
  - Low temperatures delay the chemical reactions. This extends the time for application, overcoating, and walking on it.
  - The consumption per surface unit may rise due to increasing viscosity.
  - High temperatures accelerate chemical reactions, reducing the time for application, overcoating and walking on it.
- 3) UV stress, colour shade deviation:
  - Any yellowing which occurs under UV stress does not impair the technical properties. It is especially important to observe this when using light colour shades.
  - Exposure of the chemicals may cause discolouration, which do not, however, impair the technical function of the coating.
  - Slight deviations in the colour shade are possible between different batches.

### Consumption, application:

The details on consumption and application relate to horizontal surfaces.

On inclinations: test a sample surface area first. If required, work in multi-layers and add thixotropic additive or more quartz sand to the materials.

<b>Drying, curing, ready for next coat</b>	Over-coating time: At +12°C : approx. 24 hours At +25°C : approx. 12 hours	
<b>Cleaning the tools</b>	Tools must be cleaned immediately after use with cleaning solvent.	
<b>Notes, recommendations, special information, miscellaneous</b>	Please consult the local sales office for further information and any site assistance required.	
<b>Delivery</b>		
<b>Colour</b>	Grey	
<b>Packaging</b>	<b>Name</b>	<b>Container</b>
	StoPox TEP MultiTop	30 kg set

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### Storage

**Storage conditions** Store in cool dry conditions; avoid direct sunlight.

**Storage life** This product has a shelf life of 12 months from the manufacturing date.

### Identification

**Product group** Self-levelling

**Safety** Please refer to Safety Data Sheet.

### Special Notes

The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and use.

Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk. This applies in particular when the product is used in combination with other products.

When a new Technical Data Sheet is published, all previous Technical Data Sheets are no longer valid. The latest version is available on [www.sto-sea.com](http://www.sto-sea.com).

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\*Product images may differ from the actual product.