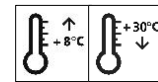


# Technical Data Sheet

## StoPox 452 EP

Epoxy resin primer for damp substrates or fresh concrete



### Characteristics

<b>Area of application</b>	<ul style="list-style-type: none"> <li>▪ Interior and exposed to weathering</li> <li>▪ On floor areas</li> <li>▪ Capillary and pore waterproofing of cementitious substrates</li> <li>▪ As primer onto damp or fresh cementitious substrates</li> <li>▪ As primer for non-mineral substrates such as stainless steel flanges and old load-bearing epoxy resin coatings</li> </ul>
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<b>Properties</b>	<ul style="list-style-type: none"> <li>▪ Very good adhesion on mineral substrates and stainless steel</li> <li>▪ Contains de-airing additives</li> </ul>
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<b>Appearance</b>	<ul style="list-style-type: none"> <li>▪ Transparent</li> </ul>
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<b>Information /notes</b>	<ul style="list-style-type: none"> <li>▪ Product is in accordance with EN 1504-2</li> <li>▪ Product is in accordance with EN 13813</li> </ul>
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### Technical Data

Criteria	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.03 - 1.09 g/cm <sup>3</sup>	
Adhesion strength	ASTM D7234	> 1.5 N/mm <sup>2</sup>	
Viscosity	EN ISO 3219	750 - 950 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

<b>Requirements</b>	<p>The substrate must be sound, dry or damp but must be load-bearing and free from native and foreign substances that have a separating effect. Remove less strong layers and laitance.</p> <p>Substrate temperature higher than +10°C and 3 K above dew point.</p> <p>Average adhesion strength &gt; 1.5 N/mm<sup>2</sup>. Adhesion strength of the single smallest value 1.0 N/mm<sup>2</sup></p> <p>Stainless steel surfaces SA 2½ - metallic bright in accordance with EN ISO 12944-4.</p>
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<b>Preparations</b>	<p>Prepare the substrate using a suitable mechanical process such as shot-blasting, milling and then shot-blasting, or abrasive blasting.</p> <p>For fresh concrete; ensure concrete has set and is stable enough. Recommended 2 days of curing at 30°C.</p>
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### Application

<b>Application temperature</b>	<p>Lowest application temperature: +8°C</p> <p>Highest application temperature: +30°C</p> <p>Maximum approved relative humidity 85%</p>
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<b>Time for application</b>	At +10°C : approx. 50 minutes At +20°C : approx. 25 minutes At +30°C : approx. 10 minutes	
<b>Mixing ratio</b>	Component A : component B = 100.0 : 45.0 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 primer, depending on the substrate	0.2 – 0.4 kg/m <sup>2</sup>
<p>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.</p>		
<b>Coating build-up</b>	<p><b>Damp Substrates / Fresh Concrete</b></p> <ol style="list-style-type: none"> <li>1) Substrate preparation (Fresh concrete recommended 2 days of curing at 30°C)</li> <li>2) Prime coating of StoPox 452 EP</li> <li>3) Scratch coat (optional, e.g. roughness &gt; 0.5 mm)</li> <li>4) Finishing coat</li> </ol>	
<b>Application</b>	<p><b>Damp Substrates / Fresh Concrete</b></p> <ol style="list-style-type: none"> <li>1) Substrate preparation</li> <li>2) Prime coating           <p>Apply StoPox 452 EP with a rubber squeegee, flooding until the substrate is totally free of pores, and then evenly spread the material by rolling/brushing. Avoid forming puddles.</p> <p>Apply StoPox 452 EP primer in one or more application cycles depending on the substrate.</p> <p>Consumption: approx. 0.2 - 0.4 kg/m<sup>2</sup>, depending on the roughness of the substrate</p> <p>If there is a waiting time of more than 72 hours until the next coating, lightly sand the prime coating and prime again or scatter of quartz sand.</p> <p>Scatter with StoFiller 60/100</p> <p>Consumption: approx. 1.0 kg/m<sup>2</sup></p> </li> <li>3) Scratch coat           <p>Prime with StoPox 452 EP.</p> <p>Consumption: approx. 0.2 - 0.4 kg/m<sup>2</sup> per application cycle</p> <p>Apply a scratch coat, consisting of 1 part by weight of StoPox 452 EP and 1 part by weight of StoFiller 60/100 (add StoDivers ST filling agent if necessary) on to the prepared and primed substrate.</p> <p>Apply the product using a smoothing trowel, a squeegee with triangular notching, and a spiked roller.</p> <p>Consumption of StoPox 452 EP: approx. 0.7 kg/m<sup>2</sup> per mm layer thickness</p> </li> </ol>	

# Technical Data Sheet

## StoPox 452 EP

Consumption of StoFiller 60/100: approx. 0.7 kg/m<sup>2</sup> per mm layer thickness

- 4) Finishing coat  
Coat with StoCretec products e.g (StoPox BB OS, StoPox KU 405, StoPox KU 601) in accordance with the relevant Technical Data Sheets

<b>Drying, curing, ready for next coat</b>	Over-coating time: At +10°C : approx. 28 hours At +23°C : approx. 14 hours At +30°C : approx. 10 hours
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<b>Cleaning the tools</b>	Tools must be cleaned immediately after use with cleaning solvent.
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<b>Notes, recommendations, special information, miscellaneous</b>	Please consult the local sales office for further information and any site assistance required.
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### Delivery

Packaging	Name	Packing
	StoPox 452 EP	10 kg combi

### Storage

<b>Storage conditions</b>	Store in cool dry conditions; avoid direct sunlight.
<b>Storage life</b>	This product has a shelf life of 12 months from the manufacturing date.

### Identification

<b>Product group</b>	Primer
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<b>Safety</b>	Please refer to Safety Data Sheet.
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### 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.