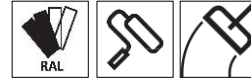


Technical Data Sheet

StoPox WG 100

Two-components, aqueous epoxy resin primer



Characteristics

- Area of application**
- For interior and exterior application on floor surfaces
 - Cement bound substrates such as concrete or cement screeds
 - As a primer under aqueous epoxy coatings
 - Adhesion primer for smooth mineral substrates or existing coatings which are based on epoxy or polyurethane (create a test sample at critical substrates)
 - Filling pinholes when thickened with StoDivers ST
 - Reprofiling of damaged precast concrete elements when filled with quartz sand

Properties

- Very good adhesion to mineral substrate or existing floor coating
- Very good adhesion primer on existing coatings
- Water vapour permeable
- Can be filled on-site with quartz sand
- Low in VOC emissions
- Rapid curing at room temperature

Appearance

- Milky, slightly cloudy

Technical Data

Criteria	Standard / test specification	Value / Unit	Notes
Density	EN ISO 2811	1.47 – 1.53 g/cm ³	
Adhesion strength	ASTM D7234	>1.5 N/mm ²	
Viscosity	EN ISO 3219	800 - 1200 mPa.s	
Solids content		72 %	

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 greater than +8°C and 3 K above dew point.

Average adhesion strength > 1.5 N/mm². Adhesion strength of the single smallest value 1.0 N/mm²

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: +8°C
 Highest application temperature: +30°C

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Time for application	At +10°C: approx. 60 minutes At +20°C: approx. 45 minutes At +30°C: approx. 30 minutes					
Mixing ratio	Component A : Component B = 100.0 : 20.0 parts by weight					
Material preparation	<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>Use a hard trowel/scrapper to agitate any settlement at base of Component A.</p> <p>Stir Component A, then add all of Component B.</p> <p>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>					
Consumption	<table border="1"> <thead> <tr> <th>Type of application</th> <th>Approx. consumption</th> </tr> </thead> <tbody> <tr> <td>As primer, depending on the substrate</td> <td>0.15 – 0.25 kg/m²</td> </tr> </tbody> </table> <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>	Type of application	Approx. consumption	As primer, depending on the substrate	0.15 – 0.25 kg/m ²	
Type of application	Approx. consumption					
As primer, depending on the substrate	0.15 – 0.25 kg/m ²					
Coating build-up	<p>Industrial floor coating for medium mechanical stress, water vapour permeable</p> <ol style="list-style-type: none"> 1) Substrate preparation 2) Prime coating of StoPox WG 100 3) Scratch coat (optional, e.g. roughness > 0.5 mm) 4) Finishing coat <p>Adhesion primer for existing coating based on epoxy or polyurethane resins</p> <ol style="list-style-type: none"> 1) Substrate preparation 2) Adhesion coat 3) Finishing coat 					
Application	<p>Industrial floor coating for medium mechanical stress, water vapour permeable:</p> <ol style="list-style-type: none"> 1) Substrate preparation 2) Prime coating Priming coat with StoPox WG 100 diluted approx. 10% with water depending on substrate and application conditions. Apply with a rubber spreader and distribute evenly by rolling / brushing down. Consumption: approx. 0.15 – 0.25 kg/m², depending on substrate roughness. 3) Scratch coat , when roughness depth >0.5 mm For very rough substrate, StoPox WG 100 undiluted filled with 1: 0.5 to 1: 0.8 parts by weight with Sto Filler 60/100 spread with a smoothing trowel and sharply screeded with a steel trowel. Over-coating when used as scratch coat: after approx. 6 - 8 hrs at 30°C Consumption of ready filled mixture: approx. 1.5 kg/m²/mm coating thickness. Consumption StoPox WG 100 : approx. 0.8 - 1.0 kg/m²/mm coating thickness Consumption of Sto Filler 60/100: approx.. 0.5 – 0.7 kg/m²/mm coating thickness 					

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- 4) Finishing coat
Coat with StoCretec products e.g. (StoPox WL 100, StoPox WB 100) in accordance with the Technical Data Sheet.

Adhesion primer for existing coating based on epoxy or polyurethane resins

- 1) Substrate preparation
- 2) Adhesion coat
StoPox WG 100 diluted with max. 10% water and applied with a short pile roller. Consumption approx. 0.1 - 0.2 kg/m² on smooth non-absorbent substrates.
- 3) Finishing coat
After a waiting period of minimum 8 hours and a maximum of 48 hours (at room temperature), coat with StoCretec products e.g. (StoPox BB OS, StoPox KU 405, StoPox KU 601) in accordance with the Technical Data Sheet.

Note:

1. While working with water based coating systems, sufficient ventilation must be ensured.
2. Different layer thickness, high air humidity and low temperatures (<10°C) can result in visible impairment. Direct sunlight, high temperatures and too little humidity bring about fast curing (visible rake marks).
3. For over-coating of an existing floor coating an analysis of the binder must be carried out.
4. A qualified worker has to dispose a test area and control bonding.
5. Elastic coating must not be over-coated with rigid ones.

Drying, curing, ready for next coat	Over-coating time with water-based epoxy resins: At +10°C : approx. 16 hours At +20°C : approx. 4 hours At +30°C : approx. 2 hours
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Cleaning the tools	Tools must be cleaned immediately after use with clean water.
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Notes, recommendation, special information, miscellaneous	Please consult the local sales office for further information and any site assistance required.
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Delivery

Packaging	Name	Packing
	StoPox WG 100	12 kg set

Storage

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

Product group	Primer
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Safety	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.

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*Product images may differ from the actual product.