

Technical Data Sheet

StoPox SK 21S

Epoxy adhesive and patching compound for concrete and steel



Characteristics

- Area of application**
- For bonding new cementitious materials to existing concrete
 - For bonding steel to concrete
 - Repair of damaged concrete structures
 - Patching of spalled concrete and small pothole
 - Fixing of anchors and dowel bars
 - As a surface sealer prior to crack injection

- Properties**
- Ease of application to both horizontal & vertical surfaces
 - Exhibits high mechanical strength
 - Possess good positive adhesive to most substrates
 - Water resistant
 - Non-sagging
 - Non-shrink
 - High chemical resistance

- Application method**
- Apply by scrapper or notched trowel

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Criteria	Standard / test specification	Value / Unit	Notes
Mixing ratio A : B		2 : 1 pbw	
Density of mixed product		1.85 g/cm ³	
Solids content		100 %	
Compressive strength	ASTM C579-01		
@ 1 day		50 N/mm ²	
@ 3 days		60 N/mm ²	
@ 7 days		70 N/mm ²	
Pull-out bond strength	ASTM D4541-09	> 3 N/mm ²	
Flashpoint		38 °C	

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.

Application

- Substrate Preparation**
- The substrate to be treated must be dry, firm and free from any deleterious substances which may prevent good adhesion.
- If necessary, lightly sand-blast, shot-blast or grind the surface prior to application.

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Material Preparation	<p>Add 1 part of Component B to 2 parts of Component A by weight. Mix only the quantity which can be placed within the prescribed setting time.</p> <p>Mix both components thoroughly using a scrapper or suitable low speed mixer and paddle until a fully homogeneous compound (mid-grey) is obtained.</p> <p>Mixing time: approximately 5 mins.</p>
Coating Procedure	<p>StoPox SK 21S is applied as a paste with a scrapper or notched trowel to the correct depth of film as required.</p> <p>When used as crack sealer prior to injection, ensure continuous film of material is applied along the full crack length and that injection points are well-bonded to the substrate.</p>
Working Life	Approx. 45 mins @ 30°C
Curing Time	<p><u>At 30°C</u></p> <p>Tack free 1 – 2 hours</p> <p>Full cure 7 days</p>
Consumption	The coverage rate is approximately 1.85 kg/m ² /mm thickness.
Application Temperature	<p>Minimum application temperature + 8 °C</p> <p>Maximum application temperature + 45 °C</p>
Cleaning Tools	Tools must be cleaned immediately after use with thinner.
Delivery	
Colour	<p>Component A White</p> <p>Component B Black</p>
Packing	StoPox SK 21S is available in 4.5 kg set.
Storage	
Storage life / conditions	The shelf life of StoPox SK 21S is approximately 12 months if stored in cool dry conditions.
Special notes	
Health & Safety	Please refer to Safety Data Sheet
Technical Support	Please consult the local sales office for further information and any site assistance required.
<p>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.</p> <p>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.</p> <p>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.</p>	

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*Product images may differ from the actual product.