

Technical Data Sheet

StoCrete SCR

One-component, polymer modified and fibre-reinforced structural repair mortar



Characteristics

Area of application

- To reinstate all types of concrete
- To repair concrete in accordance with Sto Repair Systems

Properties

- Ease of use requiring only addition of water
- Low permeability giving optimum protection to steel reinforcement from chlorides ingress
- Shrinkage compensated for large application
- High bond strength to parent concrete
- Recommended for vertical repair up to 25 mm
- Fibre reinforced to give optimum strength

Application method

- Apply by steel trowel

Technical Data

Criteria	Standard / test specification	Value / Unit	Notes
Density		Approx. 1.90 g/cm ³	
Slant Shear Bond Strength @ 28 days	BS 6319	18 N/mm ²	
Coefficient of thermal expansion		9.0 x 10 ⁻⁶ /°C	
Compressive Strength			
@ 1 day		20 N/mm ²	
@ 3 days		35 N/mm ²	
@ 7 days		40 N/mm ²	
@ 28 days		50 N/mm ²	

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

Preparation

Ensure that the concrete surface to be repaired is sound and free from dirt, oil, laitance and any other deleterious substances. Edge of repair area should be recessed to a depth of 5mm to prevent feather edging.

Application

Material Preparation

StoCrete SCR must be mixed in a forced action pan mixer or with a slow speed drill (500rpm) fitted with a spiral paddle.

Pour 4.5 – 5.0 litres of water into a mixing container. Add StoCrete SCR into the water slowly and mix for at least 3 – 4 minutes until an even trowellable plastic consistency is obtained.

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Priming

All exposed reinforcement bars must be cleaned and treated with Sto anti-corrosion primer. Saturate the area to be repair with water and remove any excess. Prime the repair area with Sto bonding agent.

Placing

StoCrete SCR should be applied while the bonding agent is still tacky. Apply StoCrete SCR using a steel trowel from the recessed edge to the recommended thickness. Thick layers should be applied in a few operations. StoCrete SCR should be allowed to partially set before finally trowelling to a smooth finish.

Setting Time	5 – 7 hours depending on ambient temperature and porosity of substrate.
Yield / Consumption	The approximate yield of StoCrete SCR per 25 kg bag is 0.013 m ³ , depending on water addition. Allowance should be made for wastages when estimating. The consumption rate is approx. 1.8 kg/mm ² per mm layer thickness
Application Temperature	Minimum application temperature + 8°C Maximum application temperature + 45°C
Cleaning Tools	Tools must be cleaned immediately after use with water. Hardened materials can only be removed mechanically.

Delivery

Packing StoCrete SCR is available in 25 kg bag

Storage

Storage Life & Condition This product has a shelf life of 12 months from the manufacturing date. Product should always be stored in an unopened bag, dry place, protected from rain, direct sunlight and raised off the floor.

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.

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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StoCrete SCR

Sto SEA Pte Ltd
159 Sin Ming Road
#06-02 Amtech Building
Singapore 575625
Phone: +65 6453 3080
Fax: +65 6453 3543
info.sg@sto.com
www.sto-sea.com

Sto SEA Sdn Bhd
28, Jalan Rajawali 3
Bandar Puchong Jaya,
47170 Selangor, Malaysia
Phone: +60 3 8080 9066
Fax: +60 3 8080 9255
info.my@sto.com
www.sto-sea.com

Sto SEA Pte Ltd
3656/49-52 Green Tower, 16th Floor
Rama IV Rd, Klongton, Klongtoei,
10110 Bangkok, Thailand
Phone: +66 2 1684 921 Ext. 230
Fax: +66 2 1684 999
info.sg@sto.com
www.sto-sea.com

StoCretec GmbH
Gutenbergstr. 6
65830 Kriftel,
Germany
Phone: +49 6192 401 104
Fax: +49 6192 401 105
info.sg@sto.com
www.sto-sea.com

*Product images may differ from the actual product.