

Technical Data Sheet

StoCrete PCR

One-component, polymer modified
standard structural repair mortar

Characteristics

Functionality	<ul style="list-style-type: none"> • 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 • Application thickness of approximately 10 - 40mm vertical and 10 - 25mm overhead achieved in one operation • Good workability and water retentivity preventing dry out phenomena • Suitable for both interior and exterior applications
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Application	Apply by steel trowel
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Area of use

- For horizontal, vertical and overhead patching of spalled concrete
- To repair concrete in accordance with the Sto REPAIR SYSTEMS

Technical data

Data	Criteria	Test Standard	Value	Unit
	Compressive strength @ 28 days	ASTM C109 : 92	40	N/mm ²
	Slant shear bond strength @ 28 days	BS 6319 : Part 4 : 84	19	N/mm ²
	Volume change	ASTM C827 : 87		
	@ 3 days		0.1	%
	@ 28 days		0.1	%
	Water absorption @ 7 days	ASTM C413 : 83 (88)	3.0	%

The values stated are average values. Due to the use of natural raw material in our products, the actual value determined on an individual delivery may deviate slightly, without compromising product suitability.

Application

Substrate preparation	<p>Ensure that the concrete surface to be repaired is sound and free from dirt, oil, laitance and any other deleterious substances.</p> <p>Edge of repair area should be recessed to a depth of 5mm to prevent feather edging.</p>
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Material preparation	<p>StoCrete PCR must be mixed in a forced action pan mixer or with a slow speed drill (500 rpm) fitted with a spiral paddle.</p> <p>Pour 4.4 - 4.6 litres of water into a mixing container.</p> <p>Add StoCrete PCR into the water slowly and mix for at least 3 - 4 minutes until an even trowellable plastic consistency is obtained.</p>
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Coating procedure	<p>Priming</p> <p>All exposed reinforcement bars must be cleaned and treated with Sto anti-corrosion primer.</p>
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Application

Coating procedure (con'td)

Saturate the area to be repair with water and remove any excess.

Prime the repair area with Sto bonding agent.

Placing

StoCrete PCR should be applied while the bonding agent is still tacky.

Apply StoCrete PCR using a steel trowel from the recessed edge to the recommended thickness. Thicker layers should be applied in a few operations.

StoCrete PCR should be allowed to partially set before finally trowelling to a smooth finish.

Setting time

Initial set 3 - 4.5 hrs

Final set 5 - 6.5 hrs

Yield

The approximate yield of StoCrete PCR per 25kg bag is 0.014m³, depending on water addition. Allowance should be made for wastages when estimating.

Application temperature

Minimum application temperature +8°C

Maximum application temperature +45°C

Cleaning of tools

Tools must be cleaned immediately after use with water. Hardened materials can only be removed mechanically..

Delivery

Colour

Grey

Packing

StoCrete PCR is available in 25kg bag.

Storage

Storage life/conditions

The shelf life of StoCrete PCR is approximately 12 months if stored in cool dry conditions.

Special notes

Safety Precautions

StoCrete PCR is non-flammable. It contains cement powders which if damp or mixed with water, will release alkali which can be harmful to the skin or eyes. Therefore, the use of protective gloves and goggles is recommended. However, should accidental eye contact occur, rinse thoroughly with plenty of clean running water and seek medical treatment immediately.

Technical Support

Please consult Sto Technical Service Department or the local sales office for further information and any site assistance required.

Disclaimer

Sto Products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions. Whilst efforts are made to ensure that any advice, recommendation, specification or information STO SEA may give is accurate and correct, it cannot accept any liability either directly or indirectly arising from the use of its products as it has no direct or continuous control over where or how the products are applied, whether or not in accordance with any advice, specification,

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Special notes

Disclaimer (con'td)

recommendation or information given by it. If any product fails to conform, STO SEA will replace the product at no cost to the buyer. Replacement of any products shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within six months from the date of the claimed breach. Buyers shall be solely responsible for determining the suitability of products for their intended use.

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