

# Technical Data Sheet

## StoCrete SAM 550

Self-levelling, cementitious underlayment

### Characteristics

<b>Functionality</b>	<ul style="list-style-type: none"> <li>• Fluid consistency ensures product levels out upon pouring to a smooth even surface</li> <li>• Polymer modified formulation ensures excellent adhesion to prepared substrates</li> <li>• Quick and easy installation</li> <li>• One component product, requires only the addition of water</li> <li>• Suitable to be pumped, especially for large area application</li> </ul>
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<b>Application</b>	Manual application or pump
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### Area of use

- Levelling cement-based floors
- Ideal for use below tiles, carpet and rubber matting

### Technical data

Data	Criteria	Test Standard	Value	Unit
	Mixed density		Approx. 2.0	g/cm <sup>3</sup>
	Compressive strength			
	@ 1 day		3	N/mm <sup>2</sup>
	@ 7 days		16	N/mm <sup>2</sup>
	@ 28 days		25	N/mm <sup>2</sup>
	Thickness		3 - 15	mm

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

<b>Substrate preparation</b>	<p>The base substrate should be sound, clean, free of cracks and other contaminants such as oil grease, dust, wax and old coatings which may inhibit adhesion.</p> <p>New concrete should be at least 28 days old.</p> <p>All loose material and laitance should be removed by light grinding or blasting.</p> <p>Light oil and grease stain can be removed with an alkali chemical degreaser followed by washing with clean water.</p>
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### Material preparation

StoCrete SAM 550 should be mixed with a mechanical mixer or a heavy duty drill fitted with a purpose made paddle.

Pour approximately 6.25 litres of clean water in a mixing container.

Slowly add  $\frac{2}{3}$  of 25kg of StoCrete SAM 550 while continuously mixing, until a smooth consistency is obtained.

Add the remaining  $\frac{1}{3}$  of the material and mix for another 3 – 5 minutes to obtain an even lump free mixture.

Allow material to rest for five minutes to remove any air bubbles produced during mixing.

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### Application

#### Coating procedure

#### Priming

1. To ensure good adhesion, improve leveling properties and to reduce blistering, a suitable Sto primer such as StoCrete SBR HD can be applied to all absorbent substrate.
2. For highly porous substrates, two coats of primer are recommended. The first coat is prepared by diluting StoCrete SBR HD with water using mix ratio 1:1 parts by weight. The second coat shall be applied without dilution.

#### Application

1. Pour the mixed material onto the primed substrate, spread it with a trowel or squeegee and allow to self smooth.
2. Immediately after laying the material, finished off with a floor finish scrapper. Do not attempt to float the setting surface.
3. If high spots or splashes occur, they can be scraped off with the edge of a trowel after initial set.
4. The required thickness must be achieved in one application. Best result is achieved when pouring and leveling are carried out in a continuous process until the designated area is completely leveled. Good site organisation is essential.

#### **Note :**

1. Do not add excessive water as this will promote bleeding and segregation with a reduction in bond and tensile strength.
2. Do not allow any traffic on the primed substrate as this may cause the de-bonding of the self leveling mortar.
3. Discard the mix if it stiffens prior to application.
4. Large areas should be divided into bays of not more than 10-12 metres in width.
5. Non moisture sensitive adhesives can be applied immediately after the surface accepts foot traffic. Other adhesive should not be applied until 48 hours after laying StoCrete SAM 550.

#### Working life

approx. 30 mins

#### Curing time

#### At 30°C

Hardening time 10-14 hours

Foot traffic 16-20 hours

Freshly laid StoCrete SAM 550 should be protected from direct sunlight and, or strong drying winds until the material is hard dry (16-20 hours).

#### Consumption

Each 25kg bag of StoCrete SAM 550 covers approx. 5.20m<sup>2</sup> at 3mm thickness.

#### Application temperature

Minimum application temperature +8°C

Maximum application temperature +45°C

#### Cleaning of tools

Tools must be cleaned immediately after use with clean water.

### Delivery

#### Colour

Cement grey

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## StoCrete SAM 550

### Delivery

**Packing** StoCrete SAM 550 is available in 25kg bag.

### Storage

**Storage life/conditions** The shelf life of StoCrete SAM 550 is approximately 12 months if stored in cool dry conditions.

### Special notes

**Safety Precautions** StoCrete SAM 550 is non-flammable. It contains cement powders which if damp or mixed with water, will released 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 SEA 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, 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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