

# Technical Data Sheet

## StoCrete SAM 550

Self-levelling cementitious underlayment

### Characteristics

- Area of application**
- Levelling cement-based floors
  - Ideal for use below tiles, carpet and rubber matting

### Properties

- Fluid consistency ensures self-levelling
- Excellent adhesion to prepared substrates
- Quick and easy installation
- One component product, requires only the addition of water
- Suitable for pumping, especially for large area application

### Technical Data

Criteria	Standard / test specification	Value / Unit	Notes
Density		2.0 g/cm <sup>3</sup>	
Compressive strength	ASTM C109		
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 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. Substrate temperature greater than +8°C and 3 K above dew point. Average adhesion strength >1.5 N/mm<sup>2</sup>. Adhesion strength of the single smallest value 1.0 N/mm<sup>2</sup>

#### Preparations

Prepare the substrate using a suitable mechanical process such as shot-blasting, milling and then shot-blasting, or abrasive blasting. New concrete should be at least 28 days old.

### Application

#### Application temperature

Lowest application temperature: +8°C  
Highest application temperature: +45°C

#### Time for application

At 30°C : approx. 30 mins

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## StoCrete SAM 550

### Material preparation

StoCrete SAM 550 is supplied in a pre-bagged 25kg packaging.

Pour approximately 6.25 litres of clean water into a mixing container. Slowly add  $\frac{2}{3}$  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

Note: Mix with a mechanical mixer or a heavy duty drill fitted with a purpose made paddle.

### Consumption

Type of application

Approx. coverage

The coverage rate @ 3mm thickness

5.20 m<sup>2</sup>/25 kg

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.

### Application method

Manual application or pump

### Coating build-up

#### Self-levelling cementitious underlayment

- 1) Substrate preparation
- 2) Primer coat
- 3) Placing of StoCrete SAM 550

### Application

- 1) Substrate preparation
- 2) Primer coat  
Apply StoCrete SBR HD to all absorbent substrate to ensure good adhesion, improve self-levelling and to reduce blistering.  
Note: For highly porous substrates, two coats of primer are recommended.
- 3) Placing of StoCrete SAM 550  
After ensuring the priming coat has dried. Apply a coat of StoCrete SBR HD then pour the mixed material of StoCrete SAM 550 onto the primed substrate (wet-on-wet).  
Spread it with a trowel or squeegee and allow to self-level. The required thickness must be achieved in one application.  
Immediately after laying the material, de-air by using a standard spike roller.  
Note: If high spots or splashes occur, they can be scraped off with the edge of a trowel after initial set.

Note :

1. Do not attempt to float the setting surface.
2. Best result is achieved when pouring and levelling are carried out in a continuous process until the designated area is completely levelled.
3. Do not add excessive water as this will promote bleeding and segregation with a reduction in bond and tensile strength.
4. Do not allow any traffic on the primed substrate as this may cause the de-bonding of the self-levelling mortar.
5. Discard the mix if it stiffens prior to application.
6. Large areas should be divided into bays of not more than 10 - 12 metres in width.
7. 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.
8. Freshly laid StoCrete SAM 550 should be protected from direct sunlight and draughts until the material is cured.

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## StoCrete SAM 550

<b>Drying, curing, ready for next coat</b>	Curing time @ 30°C
	Hardening 10-14 hours
	Foot traffic 16-20 hours

<b>Cleaning the tools</b>	Tools must be cleaned immediately after use with clean water.
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<b>Notes, recommendations, special information, miscellaneous</b>	Please consult the local sales office for further information and any site assistance required.
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### Delivery

<b>Colour</b>	Cement Grey.
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<b>Packaging</b>	<b>Name</b>	<b>Packing</b>
	StoCrete SAM 550	25 kg

### Storage

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

<b>Product group</b>	Mortar & Floor Hardener
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<b>Safety</b>	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](http://www.sto-sea.com).

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\*Product images may differ from the actual product.