

# Technical Data Sheet

## StoCrete NSG Eco

Semi-precast general purpose grout



### Characteristics

#### Area of application

- Filling of precast joints and gaps
- General concrete repair and patching

#### Properties

- High ultimate strength and low permeability giving long term durability
- Prepacked non-shrink grout
- Reliable factory controlled quality formulations eliminating site batching errors
- Iron free eliminating staining or deteriorating due to rust expansion
- Chloride free permitting use in contact with reinforced steel.

#### Application method

- Apply by manual pouring

### Technical Data

Criteria	Standard / test specification	Value / Unit	Notes
Flow	ASTM C 1437	30 to 45 %	
Compressive strength @ 28 days	ASTM C942	≥ 40 N/mm <sup>2</sup>	
Bond strength	BS EN 12615	≥ 1.5 N/mm <sup>2</sup>	
Volume change	ASTM C827	0 to +3 %	
Setting time	BS EN 196 pt 3		
Initial set		≥ 1 hour	
Final set		≤ 4 hour	

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

1. All concrete surfaces to be grouted must be sound, clean and free from oil, grease, laitance or any other loose adhering particles.
2. Formworks shall be sufficiently tight-fitting and sealed against leakages.
3. Non-absorbent formwork is preferred; otherwise, it should be properly oiled to prevent grout adhesion.
4. Thoroughly wet all surfaces prior placement and remove any excess water just before introducing the grout. Bolt holes to be grouted should be cleaned of all debris, dirt and water by oil-free compressed air or vacuum.

### Application

#### Material Preparation

1. Pour 2.85 – 3.10 lit of clean potable water into a mixing container.
2. With the mixer running, slowly add in the total content of the grout.
3. Mix continuously for about 3 – 5 minutes until a smooth and even consistency is obtained.

# Technical Data Sheet

## StoCrete NSG Eco

<b>Placing Procedure</b>	<p><u>Placing</u></p> <ol style="list-style-type: none"> <li>The mixed grout should be placed promptly before it stiffens. Higher temperature will accelerate working time.</li> <li>StoCrete NSG Eco can be placed in thickness from 10 mm to 45 mm in a single pour.</li> <li>StoCrete NSG Eco can be applied with trowels or other suitable method</li> </ol> <p><u>Curing</u></p> <p>As soon as the surface sheen disappear and the grout has begun to stiffen, water pond or cover with damp hessian, plastic sheet or other approved means such as Sto curing compound to prevent premature drying.</p>				
<b>Yield</b>	<p>One 25kg bag of StoCrete NSG Eco will yield approximately 0.012 m<sup>3</sup> of fluid grout.</p> <table border="1"> <tr> <td>Consistency on mixing</td> <td>Water content (litres / 25kg bag)</td> </tr> <tr> <td>Trowellable</td> <td>2.85 – 3.10</td> </tr> </table>	Consistency on mixing	Water content (litres / 25kg bag)	Trowellable	2.85 – 3.10
Consistency on mixing	Water content (litres / 25kg bag)				
Trowellable	2.85 – 3.10				
<b>Application Temperature</b>	<p>Minimum application temperature + 8°C Maximum application temperature + 45°C</p>				
<b>Cleaning Tools</b>	Tools can be cleaned immediately after use with water.				
<b>Delivery</b>					
<b>Packing</b>	StoCrete NSG Eco is available in 25 kg bag.				
<b>Storage</b>					
<b>Storage Life &amp; Condition</b>	<p>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.</p>				
<b>Special notes</b>					
<b>Health &amp; Safety</b>	Please refer to Safety Data Sheet				
<b>Technical Support</b>	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](http://www.sto-sea.com).

## Technical Data Sheet

---

### StoCrete NSG Eco

**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](mailto:info.sg@sto.com)  
[www.sto-sea.com](http://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](mailto:info.my@sto.com)  
[www.sto-sea.com](http://www.sto-sea.com)

**Sto SEA Pte Ltd**  
3656/49-52 Green Tower, 16<sup>th</sup> 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](mailto:info.sg@sto.com)  
[www.sto-sea.com](http://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](mailto:info.sg@sto.com)  
[www.sto-sea.com](http://www.sto-sea.com)

\*Product images may differ from the actual product.