

# Technical Data Sheet

## StoCrete NSG H

General purpose, high-flow, pumpable non-shrink precision grout



### Characteristics

#### Area of application

- To provide heavy duty support beneath load bearing units
- Concrete repairs and pressure grouting

#### Properties

- Ease of application
- Positive expansion to ensure effective contact and support
- Minimal downtime
- Elimination of site batching errors
- Low permeability
- Elimination of staining or deterioration
- Chloride-free permitting use in contact with reinforced steel
- Excellent flow characteristics to allow ease of application
- Excellent pumping properties

### Technical Data

Criteria	Standard / test specification	Value / Unit	Notes
Compressive strength (Flowable)	ASTM C942		
@ 1 day		> 25 N/mm <sup>2</sup>	
@ 7 days		> 45 N/mm <sup>2</sup>	
@ 28 days		> 55 N/mm <sup>2</sup>	
Compressive strength (Pumpable)	ASTM C942		
@ 1 day		> 30 N/mm <sup>2</sup>	
@ 7 days		> 50 N/mm <sup>2</sup>	
@ 28 days		> 60 N/mm <sup>2</sup>	
Compressive strength (Trowellable)	ASTM C942		
@ 1 day		> 40 N/mm <sup>2</sup>	
@ 7 days		> 60 N/mm <sup>2</sup>	
@ 28 days		> 70 N/mm <sup>2</sup>	
Expansive characteristics	ASTM C940		
@ 3 days		< 0.2 %	
@ 28 days		< 0.2 %	
Setting time	ASTM C953		
Initial set		approx. 190 minutes	
Final set		approx. 220 minutes	
Flow	ASTM C939	< 30 seconds	

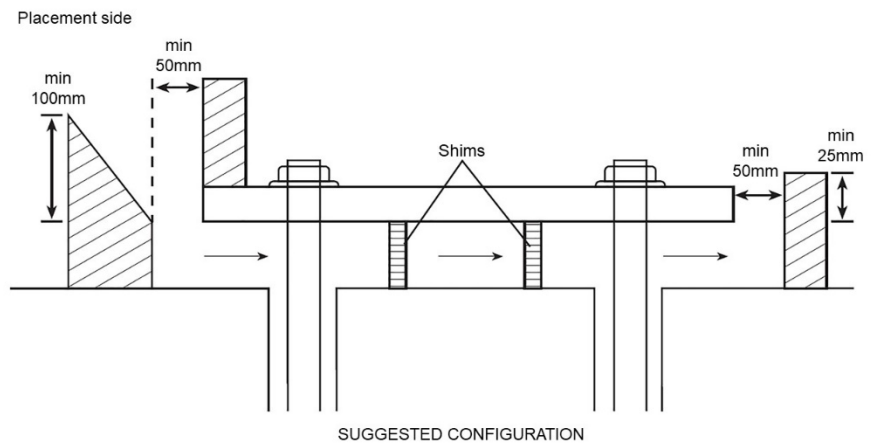
The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

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### 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. On the placement side, the forms should be constructed above the bottom of the plate to form a head-box.

The head-box should be positioned at a minimum of 50 mm from the plate and slope away at a 45° angle to assist grout placement as well as prevent air entrapment.

4. A minimum grout head (adjacent height of the slope form) of 100 mm must be maintained. In general, this can be established as 1/5 of the travel distance for the grout.
5. On the opposite side, the form should be minimum 50 mm away from the plate and extend at least 25 mm above the bottom of the plate.
6. Non-absorbent formwork is preferred; otherwise, it should be properly oiled to prevent grout adhesion.
7. Thoroughly wet all surfaces prior to 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

#### Application temperature

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

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<b>Consumption</b>	Type of application	Yield approximately
	Fluid grout	0.0130 - 0.0140 m <sup>3</sup> / 25kg bag

Consistency on Mixing	Water content (litres / 25 kg bag)
Flowable	5.2 - 5.6
Pumpable	4.4 - 5.2
Trowellable	3.6 - 4.0

Material consumption/mix design 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.

<b>Application method</b>	Apply using grout pump or manual pouring
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<b>Material Preparation</b>	<ol style="list-style-type: none"> <li>1. Pour 5.2 – 5.6 lit of clean potable water into a mixing container.</li> <li>2. With the mixer running, slowly add in the total content of the grout.</li> <li>3. Mix continuously for about 3 – 5 minutes until a smooth and even consistency is obtained.</li> <li>4. Flow consistency should be checked and care should be taken to ensure the grout will not bleed.</li> </ol>
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<b>Placing Procedure</b>	<p><u>Placing</u></p> <ol style="list-style-type: none"> <li>1. The mixed grout should be placed promptly before it stiffens. Higher temperature will accelerate working time.</li> <li>2. StoCrete NSG H can be placed in thickness from 20 mm to 100 mm in a single pour. For thicker section, it is necessary to fill out the grout using well graded, cleaned aggregates in sizes range of 4 mm – 10 mm. Quantity of aggregate added to the grout should not exceed 1 part aggregate to 1 part grout by weight.</li> <li>3. Pour grout from one side only to avoid air entrapment.</li> <li>4. Adequate grout head must be maintained at all time to achieve a continuous flow.</li> <li>5. Use a rod or strap to assist in large/difficult placement as well as to facilitate maximum surface contact.</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>
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<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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<b>Delivery</b>		
Packaging	Name	Packing
	StoCrete NSG H	25 kg

<b>Storage</b>	
<b>Storage conditions</b>	Store in cool dry conditions; avoid direct sunlight.

<b>Storage life</b>	This product has a shelf life of 12 months from the manufacturing date.
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## StoCrete NSG H

### Identification

**Product group** Mortar and Grout

**Safety** Please refer to Safety Data Sheet.

### 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.