

StoCrete NSG 85

High strength, dual shrinkage compensated grout for preplaced aggregate pressure grouting





Characteristics	
Area of application	 To provide heavy duty support beneath load bearing units Concrete repairs and pressure grouting
Properties	 Ease of application Positive expansion (dual) to ensure effective contact and support Minimal downtime Elimination of site batching errors Very high early strength and low permeability Elimination of staining or deterioration Chloride-free permitting use in contact with reinforced steel Good flow characteristics to allow ease of application

Technical Data

Criteria	Standard / test specification	Value / Unit	Notes
Compressive strength @ 28 days	ASTM C942		
@ 1 day		40 N/mm ²	
@ 7 days		60 N/mm ²	
@ 28 days		85 N/mm ²	
Expansive characteristics			
@ Early : 3 Hours	ASTM C940	0 - 4.0 %	
@ Late : 28 Days	ASTM C1090	0 – 05 %	
Setting time	ASTM C953		
Initial set		3.0 hours	
Final set		5.5 hours	
Final bleeding @ 3 hours	ASTM C940	< 2.0 %	

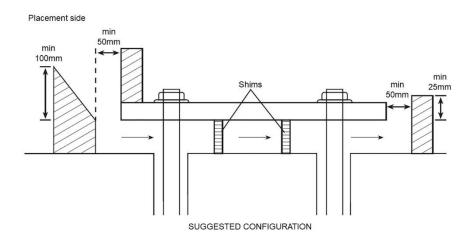
The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.



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Substrate

Preparation



Proper guideline on the substrate & material preparation has to be adhered accordingly as the properties of StoCrete NSG 85 is different from other Sto grouts.

- Due to good flowability of StoCrete NSG 85, formwork used shall be sufficiently tightfitting and sealed against leakages.
- 2. StoCrete Plug can be used to seal any leakages.
- 3. All concrete surfaces to be grouted must be sound, clean and free from oil, grease, laitance or any other loose adhering particles.
- 4. 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.
- A minimum grout head (adjacent height of the slope form) of 100mm must be maintained. In general, this can be established as 1/5 of the travel distance for the grout.
- 6. 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.
- Non-absorbent formwork is preferred; otherwise, it should be properly oiled to prevent grout adhesion.
- 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

Application temperature

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



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Consumption	Туре	of application	Yield approximately	
	Fluid	grout	0.0130 - 0.0140 m ³	
		Consistency on Mixing	Water content (litros / 25 kg hag)	
		Consistency on Mixing Flowable	Water content (litres / 25 kg bag) $3.85 - 4.4$	
	Mata			
	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			
Application method	Apply using grout pump or manual pouring			
Material Preparation	 Two-step water dosing is recommended for this grout to achieve maximum flow. First, pour approximately 95% of clean potable water into a mixing container. With the mixer running, slowly add in the total content of the grout to ensure a lump free mix. Mix continuously for at least 2 minutes until a smooth and even consistency is obtained. Add in the remaining amount of water and mix again until even consistency. 			
Placing Procedure	 Placing The mixed grout should be placed promptly before it stiffens. Higher temperature will accelerate working time. StoCrete NSG 85 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. Pour grout from one side only to avoid air entrapment. Adequate grout head must be maintained at all time to achieve a continuous flow. Use a rod or strap to assist in large/difficult placement as well as to facilitate maximum surface contact. 			
Drying, curing, ready for next coat	Curing 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.			
Cleaning the tools	Tools must be cleaned immediately after use with clean water.			
Notes, recommendations, special information, miscellaneous	Please consult the local sales office for further information and any site assistance required.			
Delivery				
Packaging	Nam	e	Packing	
	StoC	rete NSG 85	25 kg	
Storage				
Storage conditions	Store in cool dry conditions; avoid direct sunlight.			
Storage life	This product has a shelf life of 6 months from the manufacturing date.			



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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 .

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*Product images may differ from the actual product.