

PRODUCT DATA SHEET

Parex CS Grout

Non shrink, high strength cementitious grout

DESCRIPTION

Parex CS Grout is a Portland cement based product giving high strength, good flow and non-shrink properties. Placed grout gives structural support and good vibration resistance.

USES

- Crane rail tracks
- Stanchion bases
- Machine bed plates
- Dowel bars between pre-cast units
- Ground anchors
- Bridge Bearing Supports

CHARACTERISTICS / ADVANTAGES

- High strength
- Non shrink
- Chloride free
- Low water absorption
- resistance to sea water and mild alkali attack

APPROVALS / CERTIFICATES

CS Grout has been tested in accordance with the appropriate parts of the following standards:
EN 12390 BS 476 ASTM C953 ASTM C1107

CS Grout complies with the requirements of Corps of Engineers Specification for Non Shrink Grout CRD C621 and for Highways clause 2601.

CS Grout complies with BS 6920

PRODUCT INFORMATION

Packaging	25kg bags & 1 tonne bulk bags
Appearance / Colour	Grey powder
Shelf life	6 months
Storage conditions	Store properly in dry conditions in undamaged and unopened original sealed packaging
Density	2100 kg/m ³

TECHNICAL INFORMATION

Compressive strength	Consistency	1 Day	3 Days	7 Days	28 Days
	Mortar	50 N/mm ²	66 N/mm ²	72 N/mm ²	75 N/mm ²
Plastic	41 N/mm ²	60 N/mm ²	69 N/mm ²	72 N/mm ²	
Liquid	25 N/mm ²	47 N/mm ²	51 N/mm ²	56 N/mm ²	
Modulus of elasticity in compression	30 KN/mm ²				
Tensile strength in flexure	10 N/mm ² (after 28 days)				

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Yield	25 kg yields 13.25 litres of grout
Layer thickness	10mm min / 100mm max
Ambient air temperature	+5°C min. / +45°C max.
Initial set time	260 mins
Setting time	290 mins

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets before using any products. For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete, mortar, stone:

Surfaces must be sound, clean, free from ice, oils, grease, standing water and any loose or friable particles and any other surface contaminants. The concrete "pull off" (tensile) strength should be > 1.0 MPa.

Steel, iron:

Clean, free from oil or grease, rust and scale etc.

Substrate Preparation:

The substrate should be prepared by suitable mechanical preparation techniques such as high pressure water jetting, breakers, blastcleaning, scabblers, etc. The concrete substrates should be pre-soaked with clean water continuously for 2 - 6 hours to ensure a saturated surface dry condition throughout the operation. Immediately before pouring grout, remove all excess or standing water from within any formwork, cavities or pockets.

Shutter/Formwork:

All formwork should be of adequate strength, treated with release agent and sealed to prevent leakage. Sealing can be achieved by using Sikaflex® -11FC+ sealant beneath or around formwork and between joints. Ensure formwork includes outlets for extraction of the pre-soaking water. A header box/hopper should be constructed on one side of the formwork so that a grout head of 150-200 mm can be maintained during the grouting operation.

MIXING

Pour 4.5 litres of clean water into the mixing vessel for each complete bag of Parex CS Grout to be used. Slowly add the powder to the water whilst continually mixing. Mechanical mixing should be carried out using either a high torque slow speed drill with a Grout Stirrer or a grout mixer set on slow speed. (High speed or colloidal mixing will cause thixotropy leading to loss of flow.)

Alternate consistencies are achievable using the following water per 25 kg bag:

Mortar	3.6 litres
Plastic	4.3 litres
Liquid	4.8 litres

APPLICATION

Grout should be placed within 20 minutes of mixing. Continuous placing is important, pouring from one side of the formwork until the grout appears at the opposite side of the grouting area.

Do not disturb once grouting has been completed.

CURING TREATMENT

Placed grout, which is exposed, should be cured in accordance with good concrete practice including water spray or by using Sikafloor® ProSeal. In cold weather apply heat blankets to maintain a constant temperature.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened/cured material can only be mechanically removed.

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LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.