

## PRODUCT DATA SHEET

# Parex Cable Grout

CARES approved grout for grouting of cables in post-tensioned concrete.

### PRODUCT DESCRIPTION

Parex Cable Grout is a 1-part, cementitious, fluid flowing grout which will penetrate and fill fine voids within and around the cables then harden without shrinkage to give a high strength product. Particular advantages of the product include quick and easy mixing with water producing a flowing mix which promotes penetration into confined spaces. The grout is shrinkage compensated and contains a powerful corrosion inhibitor to protect the cables.

Once hardened and cured, high compressive strengths are achieved giving resistance to static and dynamic stresses. Cable Grout has a total chloride, sulphate and sulphide-ion content below that specified in EN 447 and CARES PT10.

### USES

- Grouting of cable ducts, voids and fine fissures.
- Support of cable anchor plates and ground anchors.
- To provide bearing or contact between structural elements.
- Grouting behind shafts and tunnel linings.
- Underpinning, loose floor and road slabs.

### PRODUCT INFORMATION

<b>Packaging</b>	20 kg bags
<b>Shelf Life</b>	6 months from date of production
<b>Storage Conditions</b>	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to packaging.

### TECHNICAL INFORMATION

<b>Compressive Strength</b>	<u>1 Day</u>	<u>3 Days</u>	<u>7 Days</u>	<u>28 Days</u>	(EN 196-1)
	<u>18 N/mm<sup>2</sup></u>	<u>40 N/mm<sup>2</sup></u>	<u>55 N/mm<sup>2</sup></u>	<u>65 N/mm<sup>2</sup></u>	

### CHARACTERISTICS / ADVANTAGES

- Shrinkage compensated
- High early compressive strength
- Excellent flowability
- Contains corrosion inhibitors
- CARES Approved

### APPROVALS / STANDARDS

Cable Grout has been tested in accordance with the appropriate parts of the following Standards: EN445, EN446, EN447, EN196-1, EN196-3. CARES PT10 certificate number 080706 (copies available on request).

Reaction to Fire	Non-flammable	
Bleeding	0.1%	(EN 445)

## APPLICATION INFORMATION

Mixing Ratio	33% - 35%		
	6.6 - 7 litres of water for 20 kg of powder.		
Yield	Each 20kg bag of Parex Cable Grout will yield approximately 13 litres of mixed material at water dose rate of 35%.		
Layer Thickness			
Flowability	Flow cone	T <sub>0</sub> 14.5s	(EN 445)
		T <sub>30A</sub> 14.3s	
		T <sub>30B</sub> 13.8s	
Ambient Air Temperature	+5°C min. +35°C max.		
Substrate Temperature	+5°C min. +35°C max.		
Setting time	< 22 hours		
Initial set time	> 6 hours		

## VALUE BASE

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

## LIMITATIONS

- Do not exceed water addition
- Not to be used for patch repair works
- Use only on clean, sound substrate
- Do not apply when there is a risk of frost
- Pour or pump from one side only
- Keep exposed surfaces to a minimum

## ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

All necessary preparatory work must be completed before the grout is mixed, ensuring that surfaces are sound, clean, free from ice, oils, grease, standing water and any loose or friable particles and any other surface contaminants. The fluid nature of the grout at 35% maximum water to powder ratio enables it to flow long distances in well prepared elements. Sufficient head should always be provided by positive pump pressure to ensure

grout flow along or upwards in the cable ducts. Site trials may be carried out to confirm that suitable equipment is available and an appropriate water / powder ratio is chosen. A surcharge stand pipe should be allowed for to take up 'sinkage' as the grout fills voids. Ensure that enough grout is mixed and available for the grouting operation to be completed in one continuous pour.

### MIXING

Measure the appropriate amount of water to achieve the desired grout consistency. For each 20kg bag of Parex Cable Grout, a maximum of 7 litres of water are required. For single bag mixes suitable mixing may be achieved using a high torque slow speed drill with a Grout Stirrer. For larger mixes use a standard grout mixer such as the Groutmaster, Putzmeister or Colcrete series. Pour the required quantity of clean water into a clean mixing vessel. Slowly add the Parex Cable Grout to the water whilst continually mixing. Keep the mixed grout in a slow agitating holding tank prior to placing.

### APPLICATION

Where Parex Cable Grout will be pumped into place the grout pump should be of the positive displacement type capable of generating at least 10 bars pressure. Up to 40 bars may be required to fill particularly long or high upward running ducts. The rate and continuity of placing should be controlled to encourage good penetration of grout into the voids within the duct and the expulsion of air from the duct. Do not disturb once grouting has been completed before the grout has hardened. Parex Cable Grout may be placed at temperatures between +5°C and +35°C.

## CURING TREATMENT

After grouting has been completed, or when the formwork is removed, any exposed grout must be cured immediately with Sikafloor® ProSeal. During adverse weather conditions, such as high temperatures and drying winds, a second application of Sikafloor® ProSeal should be applied after the first application is dry.

## CLEANING OF TOOLS

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

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## 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.

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