

## PRODUCT DATA SHEET

# SikaGrout® Cable PT

HIGH PERFORMANCE, SAND FREE, CEMENTITIOUS GROUT FOR POST-TENSIONED STRUCTURES

### DESCRIPTION

SikaGrout® Cable PT is a non-shrink, cementitious cable grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic & contains no chlorides. With a special blend of shrinkage-reducing and plasticizing / water reducing agents. SikaGrout® Cable PT compensates for shrinkage in both the plastic & hardened states. Suitable for use in hot and tropical climatic conditions.

### USES

SikaGrout® Cable PT may only be used by experienced professionals.

- Use for horizontal & vertical grouting of ducts within bonded, post-tensioned structures.
- Use to grout, fill or repair voids with ducts of post-tensioning strands for corrosion protection.
- Use for grouting tight clearances.

### PRODUCT INFORMATION

<b>Composition</b>	Portland cement, special additives.
<b>Packaging</b>	25 kg bag 40 kg bag
<b>Appearance / Colour</b>	Grey powder
<b>Shelf life</b>	9 months minimum from date of production
<b>Storage conditions</b>	Store in undamaged, unopened, original sealed packaging in dry conditions between +5 °C and +35 °C. Protect from direct sunlight, heat and moisture.

### CHARACTERISTICS / ADVANTAGES

- Suitable for filling of voids within ducts of post tensioned structures
- Does not contain aluminium powder or any components which generate hydrogen gas, carbon dioxide or oxygen
- Easy to use
- Non-metallic will not stain or rust
- Low heat build-up
- Excellent for pumping: Does not segregate even at high flow / pressure
- Positive expansion when tested in accordance with BS EN 445

### APPROVALS / CERTIFICATES

SikaGrout® Cable PT follows the requirements of EN 447 and ASTM C939/-940/-1090/-109

## TECHNICAL INFORMATION

<b>Compressive strength</b>	~ 65 N/mm <sup>2</sup> (28 d) (w/p = 0.32)			(EN 196-1) (ASTM C109)
<b>Expansion</b>	<b>w/p = 0.3</b>	<b>1 Day</b>	<b>3 Days</b>	(ASTM C940)
		~0.03 %	~0.05 %	
	~0.20 % (1 d) (w/p = 0.32)			(EN 445)
<b>Bleeding</b>	Nil (w/p = 0.32)			(EN 445) (ASTM C940)

## APPLICATION INFORMATION

<b>Mixing ratio</b>	8.0 - 8.5 L of water per 25 kg bag 12.8 - 13.6 L of water per 40 kg bag Water to powder ratio min. 0.32, max. 0.34 range (w/p=0.32-0.34)		
<b>Fresh mortar density</b>	~2.00 kg/l	(ASTM C-138)	
<b>Yield</b>	25 kg of SikaGrout® Cable PT will yield approximately 16.5 litres when mixed with 8.0 litres of water. 40 kg of SikaGrout® Cable PT will yield approximately 26.4 litres when mixed with 12.8 litres of water.		
<b>Flowability</b>	Immediately after mixing ≤ 25 s	(EN 445 / ASTM C-939 modified)	
	30 minutes after mixing ≤ 25 s	(EN 445 / ASTM C-939 modified)	
	w/p = 0.32 (+23 °C)		

## BASIS OF PRODUCT DATA

All technical data stated in this 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 (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

#### Cable Duct Grouting:

Ensure that ducts, openings, inlets and outlets are clean, free of dirt and debris, fuel, oils and any other contaminants at all times.

#### Other grouting applications :

Remove all dirt, oil, grease, and other bond-inhibiting materials by mechanical means. Anchor bolts to be grouted must be degreased with a suitable solvent cleaning agent. Concrete must be sound and roughened to promote mechanical adhesion. Prior to pouring, the concrete surfaces should be in a saturated surface dry condition.

### MIXING

For cable duct grouting use a colloidal mixer / high shear mixer at approximately 2500 rpm. Mix for approximately 3 minutes, after the addition of the last bag or until a homogenous mix is achieved. Continue to agitate material in the holding hopper to achieve optimum flow. Method of mixing may significantly affect the material properties, particularly flow. At higher temperatures and / or with higher water volumes, the grout will behave less thixotropic. Therefore, it may be more appropriate to measure the flow using the standard flow cone test (ASTM C-939). The expected flux time is between 11 - 30 seconds under normal conditions. At higher temperature use chilled water & store the bags in a cool place to keep the mixed grout

temperature below 25 °C wherever possible. For other grouting applications, double mixer with spindle basket paddles, can be also used for mixing; the mixing time should be extended to 7 minutes to get the required flow.

## APPLICATION

Make sure all forming, mixing, placing, and clean-up materials are on hand. The method of pumping the grout must ensure complete filling of the ducts and complete surrounding of the strands or bar. A mock-up should be completed on-site and inspected by the engineer to ensure that the placement meets specified requirements.

For additional corrosion protection, add 100 grams of Sika® Ferrogard®-901 per bag of grout by replacing same amount of mixing water if needed.

When grouting ducts or other critical elements, it is highly recommended that experienced, trained technicians complete the work.

## CLEANING OF EQUIPMENT

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 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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All products are supplied  
under a management  
system certified to conform  
to the requirements of the  
quality, environmental and  
occupational health &  
safety standards ISO 9001,  
ISO 14001 and OHSAS  
18001.

### Product Data Sheet

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