

PRODUCT DATA SHEET

SikaGrout® Cable PT SA

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

DESCRIPTION

SikaGrout® Cable PT SA 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 SA compensates for shrinkage in both the plastic & hardened states. Suitable for use in hot and tropical climatic conditions.

USES

SikaGrout® Cable PT SA 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 posttensioning strands for corrosion protection.
- Use for grouting tight clearances.

PRODUCT INFORMATION

Composition	Portland cement, special additives
Packaging	25 kg, 40 kg bag
Appearance / Colour	Grey powder
Shelf life	12 months minimum from date of production
Storage conditions	Store in original unopened packaging in a cool and dry condition between 5 °C and 35 °C. Protect from direct sunlight, heat and condensation.
Density	~2.00 kg/l (fresh grout) (ASTM C-138)

TECHNICAL INFORMATION

Compressive strength	~65 N/mm ² (BS EN 445:2007)
Expansion	Nil (ASTM C 940-16)

CHARACTERISTICS / ADVANTAGES

- Allows shrinkage & repairing 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
- Zero bleed even at high flow
- Low heat build-up
- Excellent for pumping: Does not segregate even at high flow / pressure

APPROVALS / CERTIFICATES

SikaGrout® Cable PT SA follows the requirements of BS EN 447:2007

APPLICATION INFORMATION

Mixing ratio	7.75 - 8.0 L per 25 kg bag 12.4 - 12.8 L per 40 kg bag
Yield	25 kg of SikaGrout® Cable PT SA will yield approximately 16.5 litres when mixed with 8.0 litres of water.
Flowability	Immediately after mixing ≤ 25 s (BS EN 445:2007 / ASTM C-939 modified) 30 min after mixing ≤ 25 s (BS EN 445:2007 / ASTM C-939 modified)
	W/P = 0.31 (23 °C)

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 mockup 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.

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.

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.

ECOLOGY, HEALTH AND SAFETY

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.

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.

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SikaGrout® Cable PT SA
July 2020, Version 01.02
020201010050000015