

PRODUCT DATA SHEET

Parex Tecgrip S

Cementitious anchoring and stitching grout

PRODUCT DESCRIPTION

Parex Tecgrip S is a cementitious anchor grout requiring only the addition of clean water. The product is based on a Portland cement mix with high quality graded silica sands plus a synergistic blend of admixtures.

The mixed grout is pumped into place using a Pumpable mortar cartridge gun. Each filling of the gun must be used within 5 minutes to avoid thickening. The product in the mixing vessel must be mixed each time a gun filling is carried out.

The injected grout will tighten in the anchor hole and fix the bolt, tie or other unit into the substrate. Tecgrip S is suitable for fixings into most construction materials including concrete, rock, brickwork, masonry blockwork or other substrates capable of carrying the design load.

USES

- Ties into brick arches.
- Overhead rail tracks.
- Starter bars and dowels.
- Brick ties and stitching.
- Anchoring.

CHARACTERISTICS / ADVANTAGES

- Single component, just add water.
- Conforms to EN 998-2.
- Consistency: thixotropic mortar.
- Minimum annular clearance 2mm.
- Hand or mechanical pump placed.
- Suitable for vertical application.

PRODUCT INFORMATION

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|----------------------------|---|
| Chemical Base | Cementitious powder |
| Packaging | 25kg bags |
| Shelf Life | 6 months from date of manufacturing |
| Storage Conditions | Store properly in dry conditions in undamaged and unopened original sealed packaging. |
| Appearance / Colour | Grey powder |
| Maximum Grain Size | 1.0mm |
| Density | ~2050kg/m ³ |
| pH-Value | 12.5 |
| Total Chloride Ion Content | 0.02% (EN 196-2) |

TECHNICAL INFORMATION

| | | | |
|---|--|-----------------------------|------------|
| Compressive Strength | Duration | Compressive Strength | (EN 12190) |
| | 24 hours | ~20 MPa | |
| | 7 days | ~50 MPa | |
| | 28 days | ~60 MPa | |
| All values tested in lab conditions at 20°C / 90% RH. | | | |
| Modulus of Elasticity in Compression | ~23 GPa | | |
| Tensile Strength | ~3 MPa | | |
| Tensile adhesion strength | ≥0.15 MPa | (EN 998-2) | |
| Thermal Conductivity | P=50%1.11 [W/(m.K)] P=90%1.21 [W/(m.K)] | (EN 998-2) | |
| Water Absorption | 0.135 kg/(m ² .min0.5) | (EN 1015-8) | |
| Permeability to Water Vapour | 15/35μ | | |
| Reaction to Fire | Euroclass A1 | | |

APPLICATION INFORMATION

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|--------------------------------|---|
| Mixing Ratio | 1 part water to 5 parts powder (5 litres water per 25 kg bag) |
| Yield | 25kg yields approx. 15 litres mixed material |
| Layer Thickness | 3 mm min. |
| Ambient Air Temperature | +5°C min. / +35°C max. |
| Substrate Temperature | +5°C min. / +35°C max. |
| Open Time | ~30 minutes at 20°C |

VALUE BASE

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.

LIMITATIONS

- Do not apply outside of temperature range.
- In high temperatures do not allow placed material to dry out in the first three days.
- Safety factors: Critical 2.0, non-critical 1.5.
- Ensure substrate is saturated prior to application achieving a surface saturated dry appearance.
- Once finished protect exposed material from drying conditions.
- Shelf life 6 months from date of manufacture.

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

Holes should be drilled with rotary percussive drills on air or water flush wherever possible. If fluted drills are used, the holes should be cleaned by wire-brushing and blown out with clean compressed air. The airline should be extended to the bottom of the hole to ensure complete removal of drilling debris and dust. Prior to application the drilled holes should be dampened with water and any excess water blown out.

MIXING

Pour 5 litres of clean water into a clean mixing vessel for each complete bag of Parex Tecgrip S. Slowly add the powder to the water whilst continually mixing. Mechanical mixing should be carried out using a high torque slow speed drill with a Grout Stirrer. Mix material for a further 2 minutes after all powder has been added to achieve a homogeneous mix.

APPLICATION

Load the mixed anchor grout into the cartridge of the injection gun. Use an extension tube for the cartridge to allow filling of the hole from the bottom to the

mouth. Immediately after placing the Parex Tecgrip S, insert the bolt, bar, wall tie, slotting or other fixing. Gently agitate the inserted fixing to ensure complete contact by the anchor grout. Once placed do not disturb before the anchor grout has hardened. Each cartridge filling should be used within 5 minutes. Prior to each cartridge loading, the material in the pail should be re-mixed to maintain grout workability.

For best tensile anchorage results, a minimum embedment depth of 100mm is recommended. Hole diameters may be varied but a minimum of 3mm all-round clearance should be used. This clearance may be increased for ease of placing fixings into deep holes.

Factors controlling uniaxial pull out load:

- **Type and strength of substrate.**
- **Embedment depth.**
- **Hole preparation.**
- **Type of fixing.**

CURING TREATMENT

Protect all exposed surfaces from premature drying. Standard curing treatments can be utilised such as damp hessian sheets, plastic sheets or suitable curing membrane such as Sika®Antisol MP10.

CLEANING OF TOOLS

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

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.

SIKA LIMITED

Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited



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