

PRODUCT DATA SHEET

Parex Tecgrip V

2-COMPONENT POLYESTER RESIN ANCHOR GROUT

DESCRIPTION

Parex Tecgrip V is a two-component, polyester resin based, anchoring grout. It consists of a low viscosity polyester resin plus a catalysed filler. The two components are mixed to produce a filled resin grout, which may be poured or pumped into suitably prepared anchor holes. The mixed grout is coloured dark grey and is used for downward facing holes where the hole diameter is up to 25mm greater than the bolt or bar diameter.

The Product is used for the fixing of steel bolts into pre-drilled holes within concrete, rock, brickwork, stonework, masonry and other substrates capable of supporting the required load.

Available in both winter and summer formulations, giving a wide range of application temperatures.

USES

Parex Tecgrip V may only be used by experienced professionals.

The Product can be used with the following:

- Base plates.
- Rail tracks.
- Starter bars and dowels.
- Safety fences and balustrades.
- Reciprocating machinery.
- High impact loads.

FEATURES

- Rapid setting.
- High early strength gain.
- Pre-batched for ease of mixing.
- Contractor friendly packaging size.
- Corrosion resistant.
- Non-shrink.
- Tested in accordance with the relevant parts of BS 6319 and BS 5080.
- Winter and summer grades available.

PRODUCT INFORMATION

Packaging	4.415 kg pail (A+B)
Shelf life	18 months from date of manufacture
Storage conditions	Store properly in dry conditions in undamaged and unopened original sealed packaging. Storage at high temperatures or high humidity may reduce the shelf life.
Appearance and colour	Dark grey when mixed
Density	~1800 kg/m ³

TECHNICAL INFORMATION

Compressive strength	2 hours	~40 N/mm ²
	1 days	~80 N/mm ²
	7 days	~95 N/mm ²
Modulus of elasticity in compression	~16 kN/mm ² at 7 days	
Tensile strength	~17 N/mm ² at 7 days	

APPLICATION INFORMATION

Ambient air temperature	Winter Minimum 5°C Maximum 20°C
	Summer Minimum 15°C Maximum 35°C
Substrate temperature	Winter Minimum 5°C Maximum 20°C
	Summer Minimum 15°C Maximum 35°C
Setting time	Winter grade ~8-12 minutes (above 20°C setting will be rapid)
	Summer Grade ~18 - 22 minutes (below 10°C setting will be extended)

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.

FURTHER INFORMATION

Typical Anchor Properties at 20°C

Anchor Strengths

Length of Anchor Bond (mm)	Uniaxial Pull Out Load (tonnes)
100	3
200	8
400	16
600	24

**Deformed bar to BS 4449 in unreinforced 20 N/mm² concrete, holes drilled by rotary percussive method on air flush.*

Parameters Controlling Uniaxial Pull Out Load:

- Type and strength of base material.
- Length of resin anchor bond.
- Hole forming or drilling method.
- Type of fixing, bolt or bar.

Safety Factors:

- Non-critical applications : 1.5 minimum.
- Critical applications : 2.0 minimum.
- Compliance with relevant codes of practice and standards.

IMPORTANT CONSIDERATIONS

Parex Tecgrip V may be placed at temperatures between 5°C and 35°C. Use in structural situations at temperatures above 60°C is not recommended.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Holes should be drilled using rotary percussive drills with air or water flush. The drill bit should be of the integral type with an elliptical head. Holes which are diamond cored should be under-reamed or roughened. Holes which are drilled with a rotary percussive non-flushing drill bit should be cleaned using a steel rotary brush. Loosened dust should be blown out of the hole using compressed air through an extension tube reaching to the bottom of the hole. Cast holes should taper so that the hole diameter is smaller at the mouth than the bottom.

Steel bars used for anchoring should be deformed such as those manufactured to BS 4449. Threaded

bars may be used. When using smooth bars an extra safety factor should be incorporated into the anchor design.

MIXING

Place contents of resin can into a plastic container or pail. Slowly add catalysed filler whilst mixing. Continue mixing until a uniform colour is achieved (approximately 2 minutes). Correct mix proportioning must be used to achieve the designed anchor strength.

APPLICATION

Pour mixed grout into prepared holes, rodding if necessary to ensure grout flows to the bottom of the hole. Once grout has been placed insert bar into hole and gently twist and press home to the required depth. The bar should be left undisturbed until the grout has hardened.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Thinner C Cleaner immediately after use. Hardened / cured material can only be removed mechanically.

LOCAL RESTRICTIONS

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

SIKA LIMITED

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

