

## PRODUCT DATA SHEET

# Parex Epoxy 200 Grout

Epoxy 200 Grout is an epoxy resin based grout for thin section grouting and anchoring

### DESCRIPTION

Parex Epoxy 200 Grout is part of the Parex E Epoxy grout range cover a wide range applications and void thicknesses.

Parex Epoxy 200 Grout is an epoxy resin based anchor grout with high flow properties capable of placing in annular gaps 2 mm to 12 mm. Adhesion gained from the epoxy resin enables fixings into smooth walled holes such as diamond cored bores.

The three part formulation gives good chemical resistance to most chemicals. Stable to seawater, petroleum products, resists freeze thaw cycles.

### USES

Parex Epoxy 200 Grout may only be used by experienced professionals.

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

### PRODUCT INFORMATION

<b>Composition</b>	Epoxy resin
<b>Packaging</b>	Pre-batched unit <span style="float: right;">1 kg(A + B + C)</span>
<b>Shelf life</b>	Storage life of 24 months in unopened containers
<b>Storage conditions</b>	It must be kept in dry conditions at a temperature between 5°C and 45°C. Storage at higher temperatures and high humidity may reduce shelf life.
<b>Density</b>	Density: ~1550kg/m <sup>3</sup>

### CHARACTERISTICS / ADVANTAGES

- High early strength and fast curing
- Use in conjunction with Parex E33 winter additive for lower temperature application
- Thin section grouting possible with no loss in strengths
- Ready to mix, pre batched units
- Non-shrink
- Good resistance to most chemicals
- Stable to seawater, petroleum products, resists freeze thaw cycles.

### APPROVALS / CERTIFICATES

#### Standards

Parex Epoxy 200 Grout has been tested to the relevant parts of BS 6319, BS 5080

## TECHNICAL INFORMATION

Compressive strength	<b>1 Day</b>	<b>3 Days</b>	<b>7 Days</b>
	~65N/mm <sup>2</sup>	~75N/mm <sup>2</sup>	~82N/mm <sup>2</sup>
<i>*Typical grout properties @ 20°C, tested in lab conditions.</i>			
Pull-out resistance	<b>Length of Anchor Bond (mm)</b>	<b>Uniaxial Pull Out Load (tonnes)</b>	
	100	3	
	200	8	
	400	16	
	600	24	
<i>*Typical grout properties @ 20°C</i>			
Deformed bar to BS 4449 in unreinforced 20N/mm <sup>2</sup> concrete, holes drilled by rotary percussive method on air flush			
<b>Parameters controlling Uniaxial Pull Out Load:</b>			
Type and strength of base material. Length of resin anchor bond. Hole forming or drilling method. Type of fixing, bolt or bar.			
<b>Safety Factors:</b>			
Non – critical applications: 1.5 minimum			
Critical applications: 2.0 minimum			
<i>Compliance with relevant codes of practice and standards.</i>			

## APPLICATION INFORMATION

Yield	Each 1.0kg pack will yield approximately 0.65 litres of mixed material.
Layer thickness	Minimum grout depth: 2mm Maximum grout depth: 12mm
Material temperature	+5°C - +35°C
Ambient air temperature	+5°C - +45°C
Substrate temperature	+5°C - +35°C
Pot Life	~20 minutes @ 20°C
Applied product ready for use	~24 hours (dependant on strength requirements)

## 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.

## IMPORTANT CONSIDERATIONS

- Minimum substrate temperature +5 °C
- The material must be conditioned by being stored in an area with an ambient temperature between +5 °C and +30 °C for a minimum of 48 hours before using.
- Do not thin with solvents. Solvents will prevent proper curing and change mechanical properties.
- Component C must be kept dry.
- Avoid splitting pre-batched units to mix. Mix complete units only.
- Cold ambient, substrate or material temperatures will influence the curing and flow characteristics.
- Do not subject cured epoxy grout to sudden temperature changes especially during early curing stages.
- Protect from rain and adverse conditions during initial curing.

## ECOLOGY, HEALTH AND SAFETY

Parex Epoxy 200 Grout is a resin-based product. Resins and solvents may cause allergic reactions in some people. Wear gloves, use barrier cream on unprotected skin areas and wear eye protection when mixing, using and cleaning. Ensure adequate ventilation to prevent inhalation of vapours. If skin contact occurs remove resin immediately with cleansing cream and wash with soap and water. Do not use Solvent. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. If swallowed do not induce vomiting. Seek medical advice immediately.

For full health and safety data refer to Product Safety Data Sheet.

# APPLICATION INSTRUCTIONS

## SUBSTRATE QUALITY

Mortar and concrete must be older than 28 days (dependent on minimum strength requirements). Verify the substrate strength (concrete, natural stone etc.).

The substrate surface (all types) must be clean, dry and free from contaminants such as dirt, oil, grease, existing surface treatments and coatings etc. Steel substrates must be de-rusted to a standard equivalent to Sa 2.5. The substrate must be sound and all loose particles must be removed. Substrate must be dry or mat damp and free from any standing water, ice etc.

## SUBSTRATE PREPARATION

Substrates must be sound, dry, clean and free from laitance, ice, standing water, grease, oils, old surface treatments or coatings and all loose or friable particles must be removed to achieve a laitance and contaminant free, open textured surface.

Surface and base plate contact area must be clean and sound. For best results, the substrate shall be dry. Remove dust, laitance, oils, grease, curing compounds, impregnations, waxes, foreign particles, coatings, and disintegrated materials by mechanical means, i.e. chipping with a chisel, blast cleaning etc.

### Anchor hole preparation

All anchor pockets or sleeves must be free of water. Holes should be drilled using rotary percussive drills with air or water flush. Diamond drilled holes may be roughened or under-reamed for extra anchorage values. Holes drilled with non-flushing tools should be cleaned using a steel rotary brush. Debris should be blown out of the hole using compressed air through an extension tube reaching the bottom of the hole. Cast holes should taper so that the hole diameter is smaller at the mouth than the bottom.

## MIXING

Pour contents of hardener bottle into plastic tub containing base resin. Mix until homogeneous. Slowly add the filler, continue to mix until smooth grout has been obtained. Only use complete packs.

### SIKA LIMITED

Watchmead  
Welwyn Garden City  
Hertfordshire, AL7 1BQ  
Tel: 01707 394444  
Web: [www.sika.co.uk](http://www.sika.co.uk)  
Twitter: @SikaLimited

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## APPLICATION

For Holes angled below the horizontal to vertically downwards, pour mixed grout into prepared holes rodding if necessary to ensure grout flows to the bottom of the hole. Insert bar into hole and gently twist and press home to the required depth.

For grouting applications, pour material continuously into the pre prepared area from one side only. Where further mixes are required to fill the void, these should be prepared in sequence such that pouring is continuous. Place mixed grout within 20 minutes after start of mixing. Place in gap widths between 2mm and 12mm. For thicker sections use E20, E33, E70 or E140 variants. Do not disturb the grouted section until the grout has hardened.

## CURING TREATMENT

No special curing is required. Fixings should be left undisturbed until 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.

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