

PRODUCT DATA SHEET

Parex Granatech

SINGLE COMPONENT, BS 7533 COMPLIANT, SLURRY-APPLIED, PAVING JOINTING MORTAR

PRODUCT DESCRIPTION

A firm favourite of hard landscapers for many years, Parex Granatech is a one-component, high strength, shrinkage compensated, low modulus mortar developed in response to demands from contractors for a cost-effective material purpose-made for pointing of natural stone and concrete paving units.

The mortar is specially formulated to meet the requirements of architects and engineers requiring compliance with the relevant parts of BS 7533.

Parex Granatech can be applied speedily over large areas for effective jointing of all paving units, providing quick and cost-effective jointing when laying wherever there is a large proportion of jointing material to paving unit.

USES

- Rapidly grouting paved areas.
- Laying cropped setts.
- To receive pedestrian traffic at 2 hours.
- For vehicular trafficking after 6 hours.

CHARACTERISTICS / ADVANTAGES

- Compressive strength of ~20 N/mm² after only 1 day, and ~25 N/mm² at 3 days.
- Trafficable after only 2 hours.
- Quick to apply.
- Shrinkage compensated.
- BS 7533 Type 40 jointing mortar, ensuring performance and longevity.
- High strength.
- Economical and cost-effective.
- Aesthetically pleasing finish.
- Available in multiple colours.
- A1 fire rating.

PRODUCT INFORMATION

Packaging	25 kg bags
Shelf Life	9 months from date of manufacture
Storage Conditions	Parex Granatech will have a storage life of 9 months in unopened bags when kept in dry conditions at a temperature between 5°C and 45°C. Storage at higher temperatures and high humidity may reduce shelf life.
Appearance / Colour	Pigmented powder available in: Natural, Mid Grey, Dark Grey, Black, Beige and Yorkstone
Density	~2175kg/m ³

TECHNICAL INFORMATION

Compressive Strength	2 hours	~10 N/mm ²
	4 hours	~16 N/mm ²
	24 hours	~20 N/mm ²
	3 days	~25 N/mm ²
	7 days	~35 N/mm ²
	28 days	~48 N/mm ²
	<i>Typical values at 20°C</i>	
Modulus of Elasticity in Compression	~23100 N/mm ²	
Flexural toughness	~9.3 N/mm ²	
Tensile adhesion strength	>2.0 N/mm ²	
Shrinkage	<0.08%	
Freeze thaw resistance	<1500 g/m ²	

SYSTEM INFORMATION

System Structure	Parex Granatech is part of the Parex / Sika Streetscape System complying with the relevant parts of BS 7533 and comprising of: Bedding Mortar: Parex Fine Bedding Concrete (FBC) Priming Scrub Coat: Parex Bond Plus Mortar Pointing / Jointing Mortar: Parex Granatech Parex Granatech 40 Fine Parex SettPoint
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APPLICATION INFORMATION

Mixing Ratio	4.25 L of water for 25 kg bag
Yield	Each 25 kg bag of Parex Granatech will yield approximately 13.5 litres of mixed material.
Layer Thickness	min. 6 mm / max. 25 mm
Ambient Air Temperature	+5 °C min. / +35 °C max.
Substrate Temperature	+5 °C min. / +35 °C max.
Pot Life	~30 minutes at 20°C

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS

- Do not exceed maximum joint width.
- Place material within pot life.
- Mix only enough material to apply within 10 minutes.
- Never try and 'revive' by remixing and / or adding additional water.
- Do not apply in temperatures outside of the stated range.

- Avoid placing when rain is forecast.
- If using for the first time with a stone type, conduct a small trial to confirm compatibility.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

All paving units shall be securely bedded before pointing commences and all surfaces with which the mortar comes into contact clean and dust-free. A strong mortar bedding, free of all friable material, will enhance bond strength.

Ensure that enough mortar is mixed and available for the grouting operation to be completed in one continuous pour.

MIXING

For single bag mixes, suitable mixing may be achieved using a high torque slow speed drill with a mortar stirrer. For larger mixes, use a standard mixer.

Pour the required quantity of clean water into the mixing vessel. Slowly add the Parex Granatech to the water, continually mixing until a uniformly smooth consistency is obtained.

APPLICATION

Prior to placing, joints should be wetted but any standing water should be removed. Parex Granatech can be applied to joints of up to 25 mm width, however 6-15 mm is the optimum. The mortar slurry should be placed without delay after mixing. Continuous placing is important, concentrating on particular regions of the work area, fully filling the joints before starting a fresh section.

Parex Granatech may be poured over the paving units safely, though it is essential to dampen their surface prior to the commencement of application.

Once placed, the mortar should be left to stand until it gels, prior to the commencement of cleaning, though the surface must be kept damp during this time by the application of a light spray of water, as required.

Once the mortar has gelled, finishing and cleaning to remove any surplus material can proceed using either a proprietary belt cleaner or a soft brush together with a continuous light spray of water.

CURING TREATMENT

In general, no special curing is required, however in extremely warm conditions (>25 °C) it may be necessary to continuously spray the placed area with water to aid curing and prevent the material from drying too fast.

CLEANING OF TOOLS

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

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Product Data Sheet

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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.

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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