

PRODUCT DATA SHEET

Parex Granatech 40 Fine

Slurry-applied, high strength, low modulus mortar for natural stone and concrete paving units

DESCRIPTION

Parex Granatech 40 Fine is a high strength, 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.

It is designed for use with Parex Fine Bedding Concrete and Parex Bond Plus Mortar to allow the rapid opening of paved areas after 24 hours.

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

Parex Granatech 40 Fine 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

- Inner city paving areas.
- Footpaths, courtyards, patios and carriageways.
- Grouting large regions.
- Creating a smooth, continuous surface.
- Grouting most paving units (natural stone, concrete, clay and porcelain), including Cropped Granite Setts.
- Suitable for pedestrian traffic after 2 hours.
- Capable of receiving vehicular traffic after 4 hours.

FEATURES

- Easy to use - just add water.
- Allows a rapid return to service.
- Foot traffickable after only 2 hours.
- BS 7533 compliant.
- Shrinkage compensated.
- High strength.
- Economical and cost-effective.
- Aesthetically pleasing smoother finish.
- Available in two colours (Natural and Dark Grey).
- EuroClass A1 reaction to fire rating.

PRODUCT INFORMATION

Composition	Portland cement based, with specially selected aggregates and synergistic additives.
Packaging	25 kg bags.
Shelf life	9 months from date of manufacture.
Storage conditions	Must be kept in dry conditions at temperatures between 5°C and 45°C. Storage at higher temperatures and high humidity may reduce shelf life.
Appearance and colour	Available in either Natural or Dark Grey.
Density	~2175 kg/m ³

TECHNICAL INFORMATION

Compressive strength	2 Hours	~10 N/mm ²
	4 Hours	~16 N/mm ²
	1 Day	~23 N/mm ²
	28 Days	~48 N/mm ²
Typical values at 20°C		
Modulus of elasticity in compression	~23,100 N/mm ²	
Flexural toughness	~9.3 N/mm ²	
Tensile adhesion strength	>2.0 N/mm ²	
Shrinkage	<0.08 %	
Reaction to fire	EuroClass A1	

SYSTEM INFORMATION

System structure	Parex Granatech 40 Fine 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
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APPLICATION INFORMATION

Mixing ratio	4.25 L of water per 25 kg bag.
Yield	Each 25kg bag of Granatech 40 Fine will yield approximately 13.5 litres of mixed material.
Layer thickness	Minimum 6mm / Maximum 25mm
Ambient air temperature	+5°C minimum / +35°C maximum
Substrate temperature	+5°C minimum / +35°C maximum
Pot Life	~30 minutes at 20°C

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

- 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

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.

SUBSTRATE PREPARATION

All paving units shall be securely bedded before pointing commences, and all surfaces with which the mortar comes into contact with, 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 each 25kg bag of Parex Granatech 40 Fine, a minimum of 4.25 litres of water is required. For single bag mixes, suitable mixing may be achieved using a high torque, slow speed drill with mortar stirrer. For larger mixes, use a standard mixer.

Pour the required quantity of clean, potable water into the mixing vessel. Slowly add the Parex Granatech 40 Fine to the water, continually mixing until a uniformly smooth consistency is obtained (typically, at least 3 minutes is required).

APPLICATION

Prior to placing, joints should be wetted but any standing water should be removed. Parex Granatech 40 Fine can be applied to joints of up to 25mm width, however 6 to 15mm is the optimum. The mortar slurry should be placed within 20 minutes of mixing. Continuous placing is important, pouring from one side of the work area, fully filling the joints before starting a fresh section. Parex Granatech 40 Fine 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. Parex Granatech 40 Fine may be placed at temperatures between 5°C and 35°C. For placing temperatures outside this range, contact the Technical Services Department.

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 EQUIPMENT

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

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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.