

PRODUCT DATA SHEET

Parex Speedsure S Grout

Rapid setting, high strength, non-shrink cementitious grout

DESCRIPTION

Parex Speedsure S Grout is a Portland cement based product giving high strength, good flow and non-shrink properties. When mixed with water the product produces a material that develops a very rapid gain in early compressive strength, giving $\sim 25\text{N/mm}^2$ in 2 hours.

USES

- In situations that require a quick gain in early compressive strength.
- Repairs to car parks, forecourts, loading bays and ramps that require early trafficking.
- Factory floor repairs, ruts, hollows and cracks.
- Grouting in marine / tidal zones.

- Fast-track installation of precast units.
- Rapid installation and grouting of base plates.
- Quickly beds and secures signage, posts and street furniture.

FEATURES

- Easy to use - just add water and mix.
- Quick setting.
- High early compressive strength.
- Non-shrink (shrinkage compensated).
- Suitable for marine or tidal zones.
- Good flow properties.
- Can be safely used in contact with steel.
- Reaction to fire rating of EuroClass A1 ('non-combustible').
- Allows a rapid return to service.

PRODUCT INFORMATION

Packaging	25 kg bags
Shelf life	6 months from date of manufacture.
Storage conditions	Store properly in dry conditions in undamaged and unopened original sealed packaging
Appearance and colour	Grey powder
Density	$\sim 2210\text{ kg/m}^3$

TECHNICAL INFORMATION

Compressive strength	Age	Compressive Strength	(EN 12190)
	1 Hour	$\sim 12\text{ N/mm}^2$	
	1.5 Hours	$\sim 20\text{ N/mm}^2$	
	2 Hours	$\sim 25\text{ N/mm}^2$	
	24 Hours	$\sim 40\text{ N/mm}^2$	
	7 Days	$\sim 52\text{ N/mm}^2$	
	28 Days	$\sim 70\text{ N/mm}^2$	
Reaction to fire	Euroclass A1		

APPLICATION INFORMATION

Yield	As a guide 1 bag yields approximately 12 litres of mixed Parex Speedsure S Grout
Layer thickness	10mm minimum / 100mm maximum
Ambient air temperature	+5°C minimum / +35°C maximum
Mixing ratio	Water : mortar powder = 1 : 6.66 parts by weight (3.75 litres of water per bag)
Setting time	~15 minutes
Initial set time	~10 minutes

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.

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

All necessary preparatory work must be completed before the grout is mixed. Formwork should be erected and made grout-tight. Sealing can be achieved by using Sikaflex® - 11FC+ sealant beneath or around formwork and between joints. The formwork must be designed with sufficient hydrostatic head to ensure grout flow into and across the grouting area. Ensure that all surfaces with which the grout will come into contact are clean and dust free. A strong concrete substrate free of all friable material will enhance a good bond. The concrete substrates should be pre-soaked with clean water continuously for 2 to 6 hours to ensure a saturated surface dry condition throughout the operation. Immediately before pouring grout, remove all excess or standing water from within any formwork, cavities or pockets.

MIXING

For each 25 kg bag of Parex Speedsure S Grout, 3 litres to 3.75 litres of water are required. Single bag mixes should be prepared using a high torque slow speed drill with a grout stirrer. Pour the required quantity of clean water into the mixing vessel. Slowly add the Parex Speedsure S Grout to the water whilst continually mixing. Continue mixing for 1 minute until a homogenous mix is achieved. Place grout immediately.

APPLICATION

Parex Speedsure S Grout should be hand poured into place immediately after mixing. Continuous placing is important, pouring from one side of the formwork until the grout appears at the opposite side of the grouting area. Do not disturb once grouting has been completed before the grout has hardened.

Parex Speedsure S Grout may be placed at temperatures between 5°C and 35°C. For temperatures above 20°C care should be taken to avoid premature setting before complete placement has been achieved.

CURING TREATMENT

After the grout has initially hardened, remove formwork and trim edges while grout is 'green'. Protect the fresh material from premature drying using appropriate curing method e.g. curing compound such as a product from the Sikafloor® ProSeal range, moist geotextile membrane or hessian, polythene sheet, etc. In cold weather apply heat blankets to maintain a constant temperature.

CLEANING OF EQUIPMENT

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 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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