

## PRODUCT DATA SHEET

# Parex Rapid Mortar

Rapid setting, light coloured patching mortar

## DESCRIPTION

Parex Rapid Mortar is a one-component, cementitious, rapid setting mortar. Used for the repair of concrete substrates, the light colour will give a typical concrete colour match suited for precast elements. With rapid setting, this offers early return to service with a high early strength gain.

## USES

- Plugging of precast concrete panels.
- Sealing of joints prior to grouting operations.
- Sealing of concrete basements, concrete pipes, sewage systems and foundations.
- Rapid repair to concrete units.

## CHARACTERISTICS / ADVANTAGES

- Easy to use - just add water.
- Suitable for horizontal, vertical or overhead applications.
- Light colouration to match precast concrete.
- Consistency: Stiff workable mortar.
- Very rapid setting.
- Rapid strength gain.
- Parex Rapid Mortar is suitable for the following repair methods as defined in EN 1504-3:
  - Method 3.1 – Applying mortar by hand.
  - Method 4.4 – Adding mortar.
  - Method 7.1 – Increasing cover to reinforcement with mortar.
  - Method 7.2 – Replacing contaminated concrete.

## APPROVALS / CERTIFICATES

Parex Rapid Mortar complies with the classification R1 according to EN 1504-3 and is a concrete repair product for non-structural repair CC mortar (based on hydraulic cement).

## PRODUCT INFORMATION

Composition	Cementitious powder
Packaging	25 kg bags
Shelf life	6 months from date of manufacture
Storage conditions	Store in original unopened, sealed and undamaged packaging in dry and cool conditions.
Appearance and colour	Light grey powder
Maximum grain size	$D_{max}: <0.25\text{mm}$
Density	$\sim 1950\text{ kg/m}^3$

## TECHNICAL INFORMATION

<b>Compressive strength</b>	6 hours	~10 N/mm <sup>2</sup>	(EN 12190)
	24 hours	~20 N/mm <sup>2</sup>	
	7 days	~35 N/mm <sup>2</sup>	
	28 days	~45 N/mm <sup>2</sup>	
Typical mortar values at 20°C			
<b>Tensile adhesion strength</b>	~0.8N/mm <sup>2</sup>		(EN 1542)
<b>Reaction to fire</b>	Euroclass A1		

## APPLICATION INFORMATION

<b>Mixing ratio</b>	Parex Rapid Mortar powder - 3 parts by volume Water - 1 part by volume
<b>Consumption</b>	~1.9kg/m <sup>2</sup> /mm
<b>Layer thickness</b>	5mm min. / 25mm max.
<b>Ambient air temperature</b>	+5°C min. / +35°C max.
<b>Substrate temperature</b>	+5°C min. / +35°C max.
<b>Application time</b>	Up to 20 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

- Application temperature range +5 to +35°C.
- Do not apply to substrates that are likely to be affected by frost or freeze-thawing.
- Substrate must be clean, sound and free of loose material.
- Active cracks should be made passive prior to application.
- Saturate repair area with water prior to application.
- Once finished, protect the repair from drying conditions using suitable curing measures.

## 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 contact surfaces must be sound, clean and provide a good mechanical key. Remove all loose material, plaster, paint and oily deposits. If reinforcing steel is exposed, it should be excavated back to full circumference and cleaned by suitable means to achieve at least

SA2. Following cleaning of reinforcement a suitable primer/corrosion protection coating should be applied, such as Sika MonoTop®-1010 or similar. Repair edges should be cut back to 5mm to avoid feather edging, and smooth concrete should be roughened. No specific priming is required. Surfaces should be well saturated prior to application to achieve a saturated surface dry surface. All standing water should be removed.

### MIXING

Parex Rapid Mortar should be mixed in quantities that can be used during the workable time of the mortar. The mixing proportions are:

- Parex Rapid Mortar powder 3 parts by volume.
- Water 1 part by volume.

Pour the required volume of clean water into a suitable mixing vessel. Slowly add the powder to the water whilst continuously mixing using a slow speed, high torque drill with mortar stirrer, until the required consistency is obtained. Once mixed, use immediately to avoid wastage.

### APPLICATION

Apply Parex Rapid Mortar firmly onto the repair area. It may be necessary to use a gloved hand to compact the mortar behind steel and into narrow corners and edges. Surface finish the applied mortar with a damp steel trowel. Application thickness should be between 5 and 25mm. Thicker sections can be built up after the material has hardened sufficiently if a scored surface is left on the preceding layer.

## CURING TREATMENT

Protect the fresh mortar immediately from premature drying for a minimum of 3 days using an appropriate curing method e.g. curing compound, wet hessian, moist geotextile membrane, polythene sheet, etc. Curing compounds shall not be used when they adversely affect subsequently applied products and systems.

Reference shall also be made to EN 1504-10 for specific requirements.

## 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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