

PRODUCT DATA SHEET

Parex High Build Mortar

1-component, cementitious, high-strength, non-slump, 'stay as placed' packing mortar

DESCRIPTION

Parex High Build Mortar is a one-component, cementitious, non-slump, packing mortar for use in structural support applications where good vibration resistance is required and shuttering is impractical. The mortar can be used as a dry pack or placed without shuttering in gaps 10 to 50mm. Non-slump, 'stay as placed' characteristics prevent plastic settlement, ensuring permanent contact between substrate and supported surfaces.

USES

- Storage system tracks
- Crane rail tracks
- Underpinning
- Machinery base plate support
- Infilling between and under beams

CHARACTERISTICS / ADVANTAGES

- 'Stay as placed' properties.
- High strength gain (40N/mm² at 1 day).
- Non-slump.
- Good vibration resistance.
- Pre-bagged for consistency and quality.
- Good range of application.
- Ensures permanent contact between substrate and supported surfaces.
- Priming not normally required.
- Can be placed without shuttering.
- A1 fire rating.

PRODUCT INFORMATION

Composition	Portland cement, selected aggregates and additives.
Packaging	25 kg bags
Shelf life	6 months
Storage conditions	Store properly in undamaged original sealed packaging, in dry cool conditions.
Appearance and colour	Grey powder
Density	~2250 kg/m ³

TECHNICAL INFORMATION

Compressive strength	24 hours	~40N/mm ²
	3 days	~56N/mm ²
	7 days	~61N/mm ²
	28 days	~65N/mm ²

Typical mortar values at 20°C

Modulus of elasticity in compression	~30kN/mm ²
Coefficient of thermal expansion	11 x 10 ⁻⁶ /°C
Reaction to fire	Euroclass A1

APPLICATION INFORMATION

Mixing ratio	3.25 L of water for 25kg powder
Consumption	~2.2kg/m ² /mm
Yield	Each 25kg bag of Parex High Build Mortar will yield approximately 12.5 litres of mixed material.
Layer thickness	10 mm min. / 50 mm max.
Ambient air temperature	+5°C min. / +35°C max.
Pot Life	~20 minutes at 20°C
Setting time	~290 minutes
Initial set time	~260 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.

IMPORTANT CONSIDERATIONS

- Avoid application in direct sun and/or strong wind and/or rain.
- Do not add water over recommended dosage.
- Apply only to sound, prepared substrates.
- Do not add additional water during the surface finishing as this will cause discoloration and cracking.
- Protect freshly applied material from freezing.
- Avoid application outside of recommended temperature range.

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

Remove laitance and all loose deleterious material including dust, oil and grease to achieve a sound substrate. Concrete should be well prepared with a roughened, open texture to produce a mechanical key. Steel surfaces should be free of mill scale and rust. All exposed, cleaned steel surfaces should be treated with a suitable corrosion protection layer prior to mortar placement.

On a well prepared substrate Parex High Build Mortar

should not require priming. Dry surfaces should be well saturated to achieve a surface saturated dry appearance with all ponding water removed before application using a sponge or similar. Particularly absorbent surfaces may be primed using an SBR Liquid/cement mix.

MIXING

Pour 3.25 litres of clean water into a suitable mixing vessel for each complete bag of Parex High Build Mortar. Slowly add the powder to the water whilst continuously mixing. Mechanical mixing is preferable using a slow speed drill and mortar stirrer. For larger mixes use a forced action mixer, such as those manufactured by Mixal or Cretangle.

APPLICATION

Place the mixed Parex High Build Mortar within 20 minutes from the start of mixing. Use a clean trowel or other suitable hand tool. Ensure that the applied mortar is worked well under the plate or rail and is fully compacted. A smooth edge surface finish may be achieved using a steel trowel moistened with water. Placement in thicknesses from 10mm to 50mm may be undertaken. Do not disturb once placement has been completed until mortar has hardened

CURING TREATMENT

Placed mortar, which is exposed, should be cured in accordance with good concrete practice including water spray and spray applied curing membrane.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened 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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