

# HIGH BUILD MORTAR

## TECHNICAL DATA

**PAREX**

A SIKA COMPANY

### Product Code

TG26, packaging listed overleaf.

### Description

High Build Mortar is a high strength non-shrink cementitious product with “stay as placed” properties. Suitable for use in structural support situations and where good vibration resistance is required. The Prepared mortar can be used as a dry pack or placement without shuttering in gaps of 10mm to 50mm.

High Build Mortar gives easy placement helping to obtain complete filling of the work piece. The non-slump characteristics prevent plastic settlement producing permanent contact between substrate and supported surfaces.

### Uses include:

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

### Typical Mortar Properties @ 20°C

#### Compressive strength

1 Day	3 Days	7 Days	28 Days
40N/mm <sup>2</sup>	56N/mm <sup>2</sup>	61N/mm <sup>2</sup>	65N/mm <sup>2</sup>

Flexural Strength	9N/mm <sup>2</sup>
Density	2250 kg/m <sup>3</sup>
Coefficient of Thermal Expansion	11 x 10 <sup>-6</sup> /°C
Youngs Modulus	30kN/mm <sup>2</sup>
Setting Times	Initial : 260 minutes Final: 290 minutes

### Standards

High Build Mortar has been tested in accordance with the appropriate parts of EN 12390.

### Specification Outline

Under-rail packing and base plate support shall be carried out using High Build Mortar as manufactured by Parex Ltd. The product must be stored, handled and placed strictly in accordance with the manufacturer's instructions.

### Quality Assurance

Parex Limited has an integrated business management system. This is externally accredited by UK CARES to BS EN ISO 9001:2015, BS EN ISO 14001:2015, BS ISO 45001:2018 and BES 6001.

### Instructions For Use

#### Preparation

Remove laitance and all loose material including dust, oil and grease to achieve a sound substrate. Concrete should be roughened to produce a mechanical key. Steel surfaces should be free of mill scale and rust.

#### Priming

The majority of works using High Build Mortar do not require priming. Dry surfaces should be dampened then remove any free standing water. Particularly absorbent surfaces may be primed using an SBR Liquid/cement mix.

#### Mixing

Pour 3.25 litres of clean water into the mixing vessel for each complete bag of 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 the Mixal or the Cretangle.

#### Placing

Place the mixed 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. Clean tools and mixing equipment with water before setting of the High Build Mortar. Do not disturb once placement has been completed until mortar has hardened.

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#### Curing

High Build Mortar mixes may be placed at temperatures between 5°C and 45°C. For temperatures outside this range contact the Technical Service Department.

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

### Precautions

#### Health and Safety

High Build Mortar is alkaline when mixed with water and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice.

Full health and safety data is given in Product Safety Data Sheet

#### Fire

High Build Mortar is non-flammable

### Yield

Each 25kg bag of High Build Mortar will yield approximately 12.5 litres of mixed material.

### Storage And Shelf Life

High Build Mortar will have a storage life of 6 months in unopened tubs 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.

### Packaging And Ordering

High Build Mortar is supplied in:

25kg valvesack bag: Product Code TG26

For further information and sales, please contact your local Parex office as listed below.

Parex Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Parex Ltd Terms and Conditions of Sale, copies of which are forwarded on invoice and are available on request. Parex Ltd endeavours to ensure that the above data and any further advice is correct, however, it cannot accept any direct or indirect liability for the use of its products as such usage is beyond its control.