

FINE BEDDING CONCRETE

TECHNICAL DATA



BENEFITS

- ✓ **BS 7533 Compliant**
- ✓ **Cost Effective**
- ✓ **Available in Bulk Silos or bags**

Description

Parex Fine Bedding Concrete (FBC) is a Portland cement-based powder mix which is polymer reinforced. The mix design includes special powerful plasticising agents which produce a workable mortar suitable for bedding paving units. The low water requirement enables the placed mortar to rapidly develop the compressive strength required to support the placed paving elements.

Supplied ready mixed either in: Silos, bulk bags or 25kg bags, Parex FBC is an integral member of the Parex range of Streetscape Mortars, and is designed specifically to conform to the relevant part of BS 7533. It should be used in conjunction with: Granatech or SettPoint, to provide a fully compliant bedding and jointing system for hard landscaping products.

The pre-blended product is ready for on site mixing and only requires the measured addition of water.

The resulting mixes have good freeze-thaw stability and are resistant to oil and many chemical environments. Placement thickness may be in the nominal range 30mm to 75mm in a single layer.

Uses include: Bedding of paving units for vehicular traffic.
Bedding of paving units for pedestrian traffic.

Typical Properties @ 20°C

Compressive Strength

	3 Days	7 Days	28 Days
FBC	20N/mm ²	30N/mm ²	40N/mm ²

Tensile Strength	2.5N/mm ²
Flexural Strength	5.0N/mm ²
Bond Strength*	2.0N/mm ^{2*}
Youngs Modulus	21,000N/mm ²
Density	2000kg/m ³
Usable Life	45 minutes

Note: The bond strength attained is a function of the mortar used and the porosity / surface texture of the paving unit. When bedding slabs, the inclusion of a scrub coat of Parex Bond Plus Mortar is essential for vehicular trafficked areas.

Specification Outline

Bedding of paving units shall be carried out using Parex Fine Bedding Concrete. The product must be stored, handled and used strictly in accordance with the manufacturer's instructions.

Quality Assurance

Fine Bedding Concrete is manufactured under a quality system conforming to BS EN ISO 9001:2015.

Standards

Fine Bedding Concrete has been tested in accordance with the relevant parts of the following standards:
BS 1881 and BS 7533



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Instructions for Use

Preparation

Contact surfaces must be sound, clean and provide a good mechanical key. Remove any loose material, laitance, plaster, paint and oily deposits.

Priming

Prepare a priming scrub coat of Parex Bond Plus Mortar. Prime the prepared substrate and the under side of the paving units with the priming scrub coat using a stiff bristle brush.

Apply the Parex FBC before the priming coat has dried.

Mixing

Parex FBC is supplied in: silos, bulk bags or 25kg bags. The water requirement is 8-9% or 2-2.25 litres of water per 25kg bag. When using mortar from a silo, connect the power and water strictly in accordance with supplier's instruction and dispense ready mixed mortar as required. Mixing of bagged FBC requires a forced action mixer such as a Creteangle.

Placing of Fine Bedding Concrete and Paving

Apply the mixed Fine Bedding Concrete to the primed substrate before the priming coat has dried. Compact the Fine Bedding Concrete to ensure good contact with the underlying primed surface. Paving units surfaces should be free of dust and contamination. It is advisable to dip setts/cubes in water to clean them prior to priming. Prime the back of the paving units being used and place the units onto the wet Fine Bedding Concrete and adjust the levels as required. Always ensure that the Fine Bedding Concrete layer is fully compacted.

Application thickness of the Fine Bedding Concrete should be in the range of 30mm to 75mm. In situations where thick layers are required to be built up, the surface of the under layer should be left with a wood float finish and should be scored. Subsequent Bond Plus and Fine Bedding Concrete layers may be applied as soon as the initial layer is firm enough not to distort under the new work.

Fine Bedding Concrete may be applied at temperatures between 5°C and 35°C. For application at temperatures outside this range, contact the Technical Service Department.

Curing

In temperate ambient conditions, no special curing is required. In severe drying conditions of high temperatures and high wind, the paved surface should be sprayed with water to assist with temperature control of the paving surface and provide water for additional curing of the Fine Bedding Concrete.

Precautions

Health and Safety

Fine Bedding Concrete 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 are given in the Product Safety Data Sheet.

Fire

Fine Bedding Concrete is non-flammable.

Yield

Nominal yield - 2 tonne per cubic metre, of wet mix.
13.5 litres per 25kg bag.

Storage and Shelf Life

Bagged FBC will have a shelf life of 6 months when kept in dry conditions at a temperature of 5°C to 35°C. Storage at higher temperatures or high humidity may reduce the shelf life.

Bulk bags should be used as soon as possible after delivery. Bags not to be used immediately should be stored on pallets and undercover.

Packaging and Ordering

Fine Bedding Concrete is supplied in silos, bulk bags or in 25kg bags.

Silo supplied	Product Code ELM530S
Bulk bag	Product Code EML530BC
25kg bag	Product Code ELM530BA

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.

