

FINE BEDDING CONCRETE RS

Issue 1



BENEFITS

- ✓ **Allows rapid opening of paved areas**
- ✓ **Can be vehicular trafficked after 24 hours**
- ✓ **Available in bulk silos or bags**

Description

Fine Bedding Concrete RS 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 RS is an integral member of the Parex Streetscape range of Streetscape Mortars, and is designed specifically to conform to the relevant part of BS 7533. It should be used in conjunction with: Parex Granatech 40 Fine RS Jointing Mortar to provide a fully compliant bedding and jointing system for hard landscaping products which can be vehicular trafficked after 24 hours.

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 trafficking after 24 hours.

Bedding of paving units for pedestrian trafficking after 10 hours.

Typical Properties @ 20°C

Compressive Strength

	10 hours	14 hours	24 hours
FBC	10N/mm ²	15N/mm ²	20N/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

* 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 RS. The product must be stored, handled and used strictly in accordance with the manufacturer's instructions.

Quality Assurance

Fine Bedding Concrete RS is manufactured under a quality system conforming to BS EN ISO 9001:2008.

Standards

Fine Bedding Concrete RS 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 RS before the priming coat has dried.

Mixing

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

Placing of Fine Bedding Concrete and Paving

Apply the mixed Fine Bedding Concrete RS to the primed substrate before the priming coat has dried. Compact the Fine Bedding Concrete RS 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 RS and adjust the levels as required. Always ensure that the Fine Bedding Concrete RS layer is fully compacted.

The working life is approx. 90 minutes from mixing, dependant upon ambient conditions.

Application thickness of the Fine Bedding Concrete RS 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 primer and Fine Bedding Concrete RS layers may be applied as soon as the initial layer is firm enough not to distort under the new work.

Fine Bedding Concrete RS 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 RS.

Precautions

Health and Safety

Fine Bedding Concrete RS 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 RS is non-flammable

Yield

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

Storage and Shelf Life

Bagged FBC RS 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.

Packaging and Ordering

Fine Bedding Concrete RS is supplied in silos and bulk bags. 25kg bags can be supplied by special manufacture, minimum quantities apply.

Silo	Product Code ELM530SRS
Bulk bags	Product Code ELM530RSBB
25kg bag	Product Code ELM530RS25

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

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