



PS CONCRETE REPAIR

DESCRIPTION

PS Concrete Repair is a specially formulated, pre-mixed cementitious concrete powder. The material mixes readily with water to produce a non-shrink, water-resistant repair material that hardens to give a high strength product. **PS Concrete Repair** will provide a concrete repair with similar characteristics to the concrete surround once placed.

QUALITY ASSURANCE

PS Concrete Repair is a Quality Assured product produced to BS EN ISO 9001:2000

USES	BENEFITS
<ul style="list-style-type: none">• Concrete repairs to reinforced concrete structures• Load bearing and structural applications• Repair and protection of concrete in marine environments• Motorway bridges, viaducts and carriageway repairs• To repair concrete floors, car parks, pathways, loading bays, roadways and motorways	<ul style="list-style-type: none">• Designed to Department of Transport Specification for Highways Works• Portland cement based, acrylic modified and microsilica enhanced• Quickly and easily mixed, pumped or trowelled and placed• Water resistant• Will not segregate or bleed, and is readily pumpable• Excellent mechanical strengths and good bond strengths• Resistant to static, dynamic and vibrational stresses• Shrinkage compensated, low-alkali cements equivalent Na₂O below 3.0kg/m³• Incorporates non-reactive graded sands safe from ASR attack• Contains no chlorides, ferrous metal or other deleterious substances• Economical, non-toxic and safe to use

COMPONENTS & APPEARANCE

PS Concrete Repair is a blend of fine cements, high quality graded sands and aggregates, polymers and admixtures. **PS Concrete Repair** is a grey cement powder with graded filler.

YIELD

25kg powder yields 11.50 litres of repair concrete. 1m³ of **PS Concrete Repair** requires 2.175 tonnes of powder. (2 units yields approximately 1m² at 25mm thick).



PRODUCT DATA SHEET

MIXING INSTRUCTIONS

PS Concrete Repair is mixed with water using a suitable container, a pneumatic or electric power tool (1kW), and a stirrer. Large amounts of material may be mixed using a forced action paddle mixer, or mixer pump. Add 3.5 litres of water to the container or mixer. Pour 25kg of powder onto the water while mixing. For batches of 2 or more bags, repeat the procedure. After all the powder has been added, mix for 30 seconds. The concrete is now ready for use. Alternatively, small amounts of the material can be prepared by adding the powder to a quantity of water in stages, while mixing to obtain the required consistency.

When applying **PS Concrete Repair** to a vertical surface, the addition of PVA to the mix as well as water will help the mix achieve a more sticky consistency required for the material to hold in place.

APPLICATION & PREPARATION

All necessary preparatory work must be completed before the concrete is mixed. Ensure that all surfaces with which **PS Concrete Repair** comes into contact are clean and dust-free. A strong concrete substrate free of all friable material will enhance a good bond. All surfaces to be prepared should be thoroughly dampened out, though free from standing water. Apply 2 coats of **PS Primer Latex** (see data sheet) and while still tacky (wet) place the mixed **PS Concrete Repair**.

PLACING

Shutters must be impermeable to the passage of water, and strong enough to contain and support the concrete. Sufficient hydrostatic head must be given to the material to enable it to flow completely through the void to be filled. Make sure that enough **PS Concrete Repair** is mixed and available so that the operation can be performed in one continuous pour.

When placing by trowel, work swiftly to build repair at minimum thickness of 10mm but not exceeding 50mm. Thicker sections up to 250mm must be placed in 50mm layers, if in doubt ask our Technical Advisory Service. Please note feathered edging is not recommended for this product, saw cut edges to minimum depth of 10mm are required to outline the repair area.

CURING

It is essential that good concreting practice is maintained at every stage of the repair.

PS Concrete Repair is cured properly 2-3 days after placing. **PS Concrete Repair** is able to take foot traffic after 4-6 hours depending on conditions.

PACKAGING AND SHELF LIFE

PS Concrete Repair is packaged in 25kg plastic tubs (re-sealable) for larger work 25kg water resistant paper bags on pallets. Stored in a cool, dry environment **PS Concrete Repair** has a 12 month (minimum) shelf life.

HEALTH AND SAFETY

PS Concrete Repair is non-toxic and safe to use. However, use the same precautions as with any cementitious product, wear protective clothing, goggles and a dust mask while mixing and applying the material.