

CONCRETE REPAIR



TRADE QUALITY YOU CAN TRUST

SETCRETE™ CONCRETE REPAIR

is suitable for use on both internal and external applications and can be applied to horizontal and vertical concrete surfaces. It is ideal for the non-structural repair of lower strength concrete elements such as concrete walls, door frames, window frames and render repairs.



- READY TO USE - JUST ADD WATER
- INTERIOR AND EXTERIOR USE
- EXCELLENT FREEZE/THAW RESISTANCE
- SUITABLE FOR VERTICAL AND HORIZONTAL APPLICATION



SETCRETE™ CONCRETE REPAIR is an easy to use, single component, Polymer Cement Concrete (PCC) mortar for the non-structural repair of damaged or worn concrete. It is suitable for use on both internal and external applications and can be applied to horizontal and vertical concrete surfaces.

It is ideal for use for the non-structural repair of concrete elements such as:

- floors screeds
- concrete paving slabs
- balcony edges
- beams and lintels
- stair treads and risers
- producing gradients for ramps

SETCRETE™ CONCRETE REPAIR has been specifically designed for improved durability and freeze-thaw resistance. When mixed it forms a thixotropic mortar that can be easily applied in thickness from 5mm - 20mm horizontally in a single application and up to 10mm for vertical applications.

Standards

When used as a non-structural repair PCC mortar for the repair principle 3 (CR), repair method 3.1, 3.2, SETCRETE™ RAPID SET REPAIR MORTAR is in conformity with the relevant type requirements of EN 1504-3:2005.

Coverage

10kg will cover approximately 0.36m² (60cm x 60cm) at 15mm thickness.

Packaging


- 2.5kg pouch
- 5kg pouch
- 10kg pouch



BS EN 1504-3 Class Designation	R2 Mortar
Working Time @ 20°C	20 minutes
Walk on hard time @ 20°C	6 hours
Compressive Strength N/mm ²	28 Days > 30.0
Flexural Strength N/mm ²	28 Days > 5.0
Application Thickness	5 - 20 mm

*At 20°C and 40-65% relative humidity.



	
F. Ball and Co. Ltd. 18 FBI 15-CPR-05-09-2018	
EN 1504-3:2005 SETCRETE™ CONCRETE REPAIR Repair mortar (PCC) for non-structural repair of concrete structures with low performance requirements in buildings and civil engineering works; Principle 3 (CR), Method 3.1	
Compressive strength:	Class R1 ≥ 10 MPa
Chloride ion content:	$\leq 0,05\%$
Adhesive bond:	$\geq 0,8$ MPa
Reaction to fire:	F
Dangerous substances:	comply with 5.4

Preparation

Concrete must be fully cured, clean and sound to ensure good adhesion. All traces of dust, grease, oil, etc. must be removed. Prepare the area by carefully removing any loose, damaged or broken material back to a solid and sound substrate. Aggregate should be clearly visible on the surface of the concrete after surface preparation. The temperature of the floor must be maintained above 5°C throughout the application and drying of the mortar.

Priming

The prepared substrate should be pre-soaked with water, preferably 30 minutes before applying SETCRETE™ CONCRETE REPAIR. The surface must be damp, but without standing water.

Mixing

Add the dry powder to clean water and mix until an even consistency is obtained. As a guide use the ratio of 0.16 litres of water to 1kg of mortar (1.6 litres of clean water per 10kg).

Mixing is best achieved by the use of a power whisk fitted in an electric drill. Small quantities can be mixed by hand with a suitable stirring stick.

Working Time

Up to 20 minutes, depending upon temperature.

Application

Apply by trowel at a maximum thickness of 20mm per layer. The mortar should then be trowelled ensuring good compaction to the existing profile at the time of placing. A good surface finish can be produced using a wooden or plastic float or damp sponge. This smoothing operation needs to be completed within 20 minutes of application. Protect the repair area from rain, wind and direct sunshine whilst curing.

Drying Time

The initial set time of the repair mortar is approximately 6 hours at 20°C and can accept light foot traffic after this time. Low temperatures will extend this time i.e. at 10°C set time will be approximately 12 hours.

Tools

Smoothing trowel, wooden float, measuring bucket, stirring stick.

Cleaning

Tools should be washed with water before the material cures.

Storage and Shelf Life

Store in original, sealed packaging, in cool dry conditions and use within 12 months of manufacture.

Health and Safety

This product is classified. Obtain the relevant Safety Data Sheet and follow the advice given.

These can be found at www.setcrete.co.uk alternatively they can be obtained from the point of purchase or from F. Ball and Co. Ltd. at the address below.

For further information or technical assistance about SETCRETE™ products and to confirm this data sheet is current, please contact Technical Service Department.