



SUPA-POLYESTER REPAIR MORTAR

THE FENDER BCS GROUP OF COMPANIES

www.fenderbcs.co.uk

Description

Supa-Polyester Repair Mortar is a versatile, rapid curing, high strength, two pack mortar suitable for many applications in building and civil engineering.

The product consists of a low viscosity unsaturated polyester resin BASE component, and a FILLER component consisting of graded minerals and catalyst. Supa-Polyester Repair Mortar has a non-critical mix ratio, which allows the consistency to be varied from pourable to trowellable without affecting curing times or strength.

Typical Uses

For rapid repairs, bedding, jointing and profiling of concrete, masonry and brickwork.

Repair of in-situ and pre-cast concrete.

As an adhesive for bedding and fixing kerbs, brick slips, manhole sets, concrete slabs, etc.

Advantages

- Fast curing even at low temperatures
- High strength development
- Easy and simple to use
- Non-critical mix ratio
- Excellent adhesion to concrete and masonry surfaces
- Negligible shrinkage
- Very good chemical resistance

Typical Properties

Colour: Light grey

Density: 1.83g/cm³

Pot life @ 20°C: 15-25 Minutes

Compressive strength @ 20°C: 90 MPa at 3 hours,
100 MPa at 7 days

Tensile Strength @ 20°C: 18 MPa at 7 days

Flexural Strength @ 20°C: 32 MPa at 7 days

Adhesion to concrete: >4.1MPa(concrete failure)

Linear coefficient of thermal expansion:
30X10⁻⁶cm/cm/°C

Temperature range during application: 0°C to + 30°C

Temperature range during service: -10°C to + 60°C

Chemical resistance: Excellent resistance to water, dilute

acids and alkalis, oil, petrol, and many inorganic salts. For specific advice please consult our Technical Department.

Packaging

Supa-Polyester Repair Mortar is supplied in 6kg packs.

Procedure

Surface Preparation

Remove all laitance, spalled concrete, grease, oil, dust, and other contaminants by mechanical means e.g. scabbling or needle gunning, to provide a sound, clean substrate. Any exposed reinforcing steel shall be fully exposed by cutting out around its full circumference, and cleaned by hand abrading or wire brushing to remove rust, scale, etc.

Priming

In the case of very dense or non-absorbent substrates, prime the surface with a wet mix of Base and Filler (in a 1:1 volume mix). Ensure that all exposed reinforcing steel is primed.

Mixing

Pour the required quantity of resin, (Base component), into a clean plastic bucket, and slowly add the Filler component whilst stirring.

Add sufficient Filler to achieve the desired consistency. Do not mix more material than can be used within the stated pot life.

Application

The mixed material may be applied by pouring or trowelling, depending upon the consistency selected. The maximum thickness in one application is 15mm. Thicker sections may be built up in layers, having firstly roughened the surface between layers to provide a mechanical "key".

Equipment Cleaning

Clean equipment with Supa-Cleanse immediately after use.

Our expertise is fitting all the pieces together

Fender Steel

Head Office
20 Midland Road
Scunthorpe
North Lincolnshire
DN16 1DQ
Tel: 01724 840609
Fax: 01724 281902

BCS Products

Caenby Corner
Industrial Estate
Hemswell Cliff
Nr. Gainsborough
Lincolnshire DN21 5TU
Tel: 01427 668187
Fax: 01427 668012

Fender Steel

Unit 16A
Enterprise Park,
Bergon Way
Sutton Fields Ind. Est.,
Hull HU7 0YG
Tel: 01482 820620
Fax: 01482 820621

Fender Steel

Unit A5
Astra Park
Parkside Lane
Leeds LS11 5SZ
Tel: 0113 270 4555
Fax: 0113 270 4666

Fender Steel

5 Crofton Court
Portrack Lane
Stockton-on-Tees
Cleveland TS18 2QR
Tel: 01642 603123
Fax: 01642 674892

Fender Steel

5a Freezemoor Road
Houghton le Spring
Sunderland
Tyne & Wear DH4 7BH
Tel: 0191 512 6749
Fax: 0191 584 6547

Curing and Overcoating

Supa-Polyester Repair Mortar will have hardened sufficiently after 1 hour at 20°C or 2 hours at 10°C, to allow full trafficking or overcoating.

Full mechanical and chemical resistant properties will be achieved after 7 days @ 20°C.

Storage and Shelf Life

Store in dry conditions, out of direct sunlight, at temperatures between 10°C and 25°C.

Supa-Polyester Repair Mortar has a minimum shelf life of 6 months when stored in original, unopened containers in accordance with manufacturer's instructions.

Coverage

A 6kg pack yields 3.25 litres of mortar, sufficient for 0.65m² @ 5mm thickness.

Limitations

Do not apply to wet, or uncured concrete surfaces.

Do not apply at temperatures below 0°C.

Health and Safety

Avoid contact of the material with skin and eyes.

Wear gloves and goggles.

Wash off splashes immediately with soap and water.

Any eye contamination must be rapidly irrigated with copious amounts of clean water, and immediate medical attention sought.

Please refer to Material Safety Data Sheet for additional information

Supa-Polyester Repair Mortar shall be applied strictly in accordance with the manufacturer's instructions

For specific advice regarding any aspect of this product, please consult our Technical section.

The information provided in this Product Data Sheet is intended for general guidance only and is given in good faith based on Fender BCS Group current knowledge and experience. No warranty in respect of fitness for a purpose, or any other liability whatsoever can be inferred from the information contained within this data sheet. Users should determine the suitability of the materials for their particular application and should always refer to the most recent issue of the Product Data Sheet for the product concerned. All materials are supplied in accordance with our standard terms and conditions of sale (available upon request).