

FS MORTAR

Product Codes

EP301, EP302 Packaging listed overleaf

Description

FS Mortar is a Portland cement based powder mix which is acrylic polymer reinforced. The mix design includes special shrinkage compensating components plus powerful plasticising agents which produce a workable mortar at low water content. The resulting mix is a fast set high build cementitious mortar which is used to repair and replace damaged concrete where high early and final strengths are required. The repair mortar will give protection to exposed reinforcing steel and prevent further deterioration. FS Mortar may be used in all situations requiring conformance to DTp specification BD27/86 for repair mortars. FS Mortar is easy to use, only requiring the addition of water on site. The product is chloride free has good freeze thaw stability, low water absorption plus resistance to oil, sea water and mild alkali attack.

- Uses include:**
- Repair of reinforced concrete, renders and screeds, masonry and brick units
 - Protection of exposed reinforcing steel
 - Protection of concrete in marine and chemically aggressive environments

Typical Mortar Properties @ 20°C

Compressive Strength: Water Addition 3litres per 25kg FS Mortar

1 Hour	1 Day	7 Days	28 Days
7N/mm ²	30N/mm ²	52N/mm ²	60N/mm ²

- Tensile Strength 1.7N/mm²
- Flexural Strength 4.8N/mm²
- Coefficient of Thermal Expansion $11 \times 10^{-6}/^{\circ}\text{C}$
- Density 2170 kg/m³
- Usable Life 15 minutes

Specification Outline

Concrete repairs and replacement shall be carried out using FS Mortar as manufactured by Tecroc Products Ltd. The product must be stored, handled and used strictly in accordance with the manufacturer's instructions.

Quality Assurance

Tecroc Products Ltd is a firm of Assessed Capability. The Company's quality system conforms to BS EN 9002:1994 and is assessed by SGS Yarsley International Certification Services Ltd.

Standards

FS Mortar has been tested in accordance with the appropriate parts of the following standard:
B.S. 1881

Instructions For Use

Preparation

All contact surfaces must be sound, clean and provide a good mechanical key. Remove all loose material, plaster, paint and oily deposits. Reinforcing steel should be exposed to at least two thirds of its circumference in a sound concrete background. The steel should be totally exposed in areas where concrete repairs are deeper than the steel embedment depth. Corroded reinforcing steel should be cleaned back to bright metal. Grit blasting is a preferred method but wire brushing may be used where blasting is not possible. Roughen smooth concrete by scabbling or other mechanical means. Repair edges should be cut back to a minimum depth of 10mm.

Priming

The prepared concrete surface and reinforcing steel should be dampened then primed using a slurry coat of FS Mortar. The slurry primer should be mixed in a suitable mixing vessel using a slow speed drill and Mortar Stirrer. Do not mix more than can be applied within the usable time, approximately 15 minutes at 20°C. Ensure mortar is applied before the primer coat has dried.



Blocks



Structural Steels
Mortars



Concrete Repair
Products



Construction
Adhesives



Resin &
Cementitious
Adhesives



Highway
Products



Coatings



Waterproofing



Grained
Engineering

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Instructions For Use

Mixing

FS Mortar is supplied in 25kg bags and 25kg pails. The water requirement to produce a workable mortar is 2.75 to 3.25 litres per 25 kg of dry material. Pour the required quantity of water into a suitable mixing vessel. Slowly add the powder to the water whilst continuously mixing. Mechanical mixing is recommended. Suitable mixers include a slow speed high torque drill with a Mortar Stirrer or a forced action mixer such as Cretangle or Mixal. Mixing should be continued for three minutes after all the powder has been added to the mixing water.

Placing

Apply the FS Mortar firmly into the repair area. It may be necessary to use a gloved hand to place and compact the mortar behind reinforcing steel and into narrow corners and edges. Initially finish the surface with a wooden trowel. Apply in layers of between 10mm and 50mm. Allow the mortar to stiffen then finish finally with a dampened steel trowel. 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 mortar layers may be applied as soon as the initial layer is firm enough not to distort under the new work. Do not retemper stiffened material.

FS Mortar may be applied at temperatures between 5°C and 45°C. For application at temperatures outside this range contact the Technical Service Department.

Curing

Curing should be undertaken in accordance with good concrete practice. The curing regime should be applied as soon as finishing is complete. Suitable methods of curing include water spray, polythene sheeting, damp hessian and spray applied concrete curing membrane.

Yield

FS Mortar is packed in 25kg bags or 25kg pails. The yield from these units is approximately 11.5 litres of mixed mortar.

Storage And Shelf Life

FS Mortar will have a shelf life of 6 months in bags and 12 months in pails when kept in dry conditions at a temperature of 5°C to 45°C. Storage at higher temperatures and high humidity may reduce the shelf life.

Precautions

Health and Safety

FS Mortar 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 Product Safety Data Sheet.

Fire

FS Mortar is non-flammable

Packaging And Ordering

FS Mortar is supplied in:

25kg Bag

Product Code EP301

25kg Pail

Product Code EP302

For further information and sales please contact your local Tecroc Products office as listed below.

Tecroc Products Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Tecroc Products Ltd Terms and Conditions of Sale, copies of which are forwarded on invoice and are available on request. Tecroc Products 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.

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