

TECHNICAL DATA

Revision Date 01/2008

CR MORTAR FINE WHITE CR MORTAR FINE

Product Codes

TP12, TP35 TP16, Packaging listed overleaf

Description

CR Mortar Fine and White CR Mortar Fine are Portland cement based powder mixes which are polymer reinforced. The mix designs include special shrinkage compensating components plus powerful plasticising agents, which produce workable mortars at low water contents. The resulting mixes enable repairs to be carried out with excellent finish plus resistance to oil and many chemical environments. The products are chloride free and may be used in contact with steel elements. Site use only requires the addition of water to produce the repair mortars which have good freeze-thaw stability.

- Uses include:**
- Repair and replace thin sections of damaged concrete
 - Repairs will protect steel elements
 - Repair thickness may be in the range 10mm to 40mm for each application
 - Areas of repairs include floors, walls, columns and beams

Typical mortar properties @ 20°C

Compressive Strength

Water content 2 litres per 15 Kg Bag

| 1 Day | 3 Days | 7 days | 28 Days |
|---------------------|---------------------|---------------------|---------------------|
| 23N/mm ² | 38N/mm ² | 44N/mm ² | 52N/mm ² |

- Usable life: 45 minutes
 Density: 2030kg/m³
 Coefficient of thermal expansion: 8-10 x 10⁻⁶/°C

Standards

CR Mortar Fine and White CR Mortar Fine have been tested in accordance with the appropriate parts of the following standards:
 B.S. 1881 B.S. 6319

Specification Outline

Concrete repairs and replacement shall be carried out using CR Mortar Fine and/or White CR Mortar Fine 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 ISO 9001:2000 and is assessed by SGS Ltd Systems and Services Certification.

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. Corroded reinforcing steel should be cleaned back to bright metal. Cleaned steel should be protected by Zinc Rich primer. Smooth concrete should be roughened. Repair edges should be cut back to avoid feather edging.

Priming

The prepared concrete surface and reinforcing steel should be primed using the slurry primer formed from a mix of:

- CR Mortar Fine or
 White CR Mortar Fine 3-3.5 parts by volume
 Water 1.0 part by volume

The slurry primer should be mixed in a suitable mixing vessel using a slow speed high torque drill with a Mortar Stirrer. Do not mix more than can be applied within the usable time (45 minutes at 20°C). Ensure mortar is applied before the priming coat has dried

Mixing

CR Mortar Fine is supplied in 15kg tubs and 25kg bags.

White CR Mortar Fine is supplied in 15kg tubs.

The water requirement to produce the mortar is:

- 15kg tub: 2.00 to 2.25 litres of water
 25kg bag: 3.25 to 3.75 litres of water

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 Creteangle or Mixal. Mixing should be continued for one minute after all the powder has been added to the mixing water. For small repairs hand mixing may be used with a mix design of approximately:

- CR Mortar Fine or
 White CR Mortar Fine 4.5 parts by volume
 Water: 1.0 part by volume



Grouts



Structural Support Mortars



Concrete Repair Products



Construction Adhesives



Resin Et Cementitious Anchors



Highway Products



Coatings



Waterproofing



Ground Engineering

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MORTAR FINE

Instructions for Use

Placing

Apply the mixed 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 float. Allow the mortar to stiffen then finish finally with a dampened steel float. To obtain a plane fair faced finish, leave trowelled surface slightly proud, allow to cure for 24 hours then stone down.

CR Mortar Fine may be applied at temperatures between 5°C and 35°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. For large areas, as each half square metre is completed curing should be started. Suitable methods of curing include water spray, polythene sheeting and spray applied concrete curing membrane, Polycure.

Precautions

Health and Safety

CR Mortar Fine 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

Fire

CR Mortar Fine is non-flammable
Full health and safety details are given in Product Safety Data Sheet

Yield

CR Mortar Fine – White CR Mortar Fine are packed in 15kg tubs and 25kg bags. The yield obtained from these units:

15kg unit, approximately 7.0 litres of mixed material.

25kg unit, approximately 11.7 litres of mixed material.

Storage And Shelf Life

CR Mortar Fine – White CR Mortar Fine will have a shelf life of 6 months when kept in dry conditions at a temperature of 5°C to 45°C. Storage at higher temperatures or high humidity may reduce the shelf life.

Packaging And Ordering

CR Mortar Fine is supplied in:

15kg Tubbs Product Code TP12

25kg Bags Product Code TP35

White CR Mortar Fine is supplied in:

15kg Tubbs Product Code TP16

Polycure is supplied in 5 litre polybottles.

5 litre polybottles Product Code AF03

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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