

CR MORTAR --- WHITE CR MORTAR

Product Codes

TP07, TP25, TP20, Packaging listed overleaf

Description

CR Mortar and White CR Mortar 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 content. The pre-packaged products are ready for on site mixing only requiring measured water addition. The resulting mixes enable repairs to be carried out with excellent finish plus high early and final strengths. The repaired concrete and steel sections are protected from further deterioration, have good freeze-thaw stability and are resistant to oil and many chemical environments. Placement thickness may be in the nominal range 20mm to 65mm.

- Uses include:**
- Repair and replacement of damaged concrete
 - Protect of concrete - steel elements
 - Areas of repairs include floors, walls, columns and beams
 - Wearing surfaces in steel framed sections for man hole covers

Typical Mortar Properties @ 20°C

Compressive Strength

Water content 1.57 litres per 15 kg bag

1 Day	3 Days	7 Days	28 Days
34N/mm ²	52N/mm ²	59N/mm ²	65N/mm ²

Tensile Strength 5.5N/mm²

Flexural Strength 6.6N/mm²

Bond Strength, Slant Shear Method 41.0N/mm²

Coefficient of Thermal Expansion 9x10⁻⁶/°C

Density 2100kg/m³

Usable Life 45 minutes

Specification Outline

Concrete repairs and replacement shall be carried out using CR Mortar or White CR 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

CR Mortar and White CR Mortar has been tested in accordance with the appropriate parts of the following standards: BS1881, BS6319.

Instructions For Use

Preparation

Contact surfaces must be sound, clean and provide a good mechanical key. Remove all loose material, plaster, paint and oily deposits. Expose reinforcing steel to at least two thirds of its circumference in a sound concrete background. Totally expose steel in areas where concrete repairs are deeper than the steel embedment depth. Clean back corroded reinforcing steel to bright metal. Cleaned steel should be protected by Steel Primer. Cut back repair edges to avoid feather edging.

Priming

Prime the prepared concrete surface and reinforcing steel using the slurry primer formed from a mix of: CR Mortar or White CR Mortar:

Five parts by volume

Water: One part by volume

Mix the slurry primer in a suitable mixing vessel using a slow speed drill and Mortar Mixer. Do not mix more than can be applied within the usable time, 45 minutes at 20°C. Apply mortar before the primer coat has dried.

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Instructions For Use

Mixing

CR Mortar and White CR Mortar are supplied in 15kg tubs and 25kg bags. The water requirement to produce the mortar is:

15kg tub : 1.50 to 1.80 litres of water

25kg bag : 2.50 to 3.00 litres of water

Pour the required quantity of water into a suitable mixing vessel. Slowly add the powder to the water whilst continuously mixing. Suitable mixers include a slow speed high torque drill with a Mortar Mixer or a forced action mixer such as Creteangle or Mixal.

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. 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.

CR Mortar and White CR Mortar 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 and White CR Mortar are 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

CR Mortar and White CR Mortar are non-flammable

Yield

CR Mortar and White CR Mortar 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 and White CR Mortar will have a shelf life of 12 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 is supplied in:

15kg tub

Product Code TP7

25kg bag

Product Code TP25

White CR Mortar White is supplied in:

15kg tub

Product Code TP20

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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