

TECHNICAL DATA

Revision Date 01/2008

LIGHTWEIGHT MORTAR 14

Product Codes

TP27, Packaging listed overleaf

Description

Lightweight Mortar 14 is a Portland cement polymer and fibre modified powder mix. The mix design includes special shrinkage compensating components plus powerful plasticising agents that produce a workable mortar at low water content. The mix design produces a high build polymer and fibre modified cementitious concrete repair system also capable of being applied as a fair faced finish in vertical and overhead situations. The placed product will give protection to exposed reinforcing steel preventing further deterioration. Lightweight Mortar 14 is a one pack product ready for on site mixing only requiring the addition of water. The designed grading and the use of lightweight fillers enable high build vertical and overhead applications to be made achieving high quality finishes. Lightweight Mortar 14 is chloride free and can be safely used in contact with steel reinforcement. The placed mortar has good freeze-thaw stability and low absorption giving protection against atmospheric pollutants.

Uses include: Reinstatement of damaged concrete. High build applications in vertical and overhead situations. Placing areas of fair faced finishing. Insitu repairs of sculpted elements.

Typical Mortar Properties @ 20°C

Compressive Strength

Water content 3.5 litres per 18kg bag

1 Day	7 Days	28 Days
7.5N/mm ²	17N/mm ²	24N/mm ²

Tensile Strength @ 28 Days 1.5N/mm²
Flexural Strength @ 28 Days 3.0N/mm²
Density 1450 kg/m³
Coefficient of Thermal Expansion

Useable Life 8-11 x 10⁻⁶/°C
45 minutes

Standards

Lightweight Mortar 14 has been tested in accordance with the appropriate parts of British Standards: B.S. 1881 B.S. 6319

Specification Outline

Concrete repairs and replacement shall be carried out using Lightweight Mortar 14 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. 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. Cleaned steel should be protected by Steel Primer. Roughen smooth concrete by scabbling or other mechanical means. Repair edges should be cut back to avoid feather edging.

Priming

The prepared concrete surface and reinforcing steel should be primed using Acrylic Latex. The primer may be used as supplied and is applied using a stiff bristle brush. Ensure Lightweight Mortar 14 is applied as soon as the Acrylic Latex has become tacky and before the priming coat has dried.

Mixing

Lightweight Mortar 14 is supplied in 18kg bags. The water requirement for each bag to produce the mortar is 3.25 to 3.75 litres. 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 the Creteangle. Mixing should be continued after all the powder has been added to the mixing water until a smooth lump free mortar is achieved.

Part bag mixing should not be used.



Grouts



Structural Support Mortars



Concrete Repair Products



Construction Adhesives



Resin Et Cementitious Anchors



Highway Products



Coatings



Waterproofing



Ground Engineering

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MORTAR 14

Instructions For Use

Application

Apply the Lightweight Mortar 14 firmly onto the primed 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. Allow the mortar to stiffen then finish finally with a dampened steel trowel. Where thicker 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 Lightweight Mortar 14 layers may be applied as soon as the initial layer is firm enough not to distort under the new work.

The layer thickness of the Lightweight Mortar 14 should not be less than 10mm. Joint sections may be filled in thicknesses up to 75mm. Small pockets can be filled in thicknesses up to 125mm. Where higher strength is required Lightweight Mortar 18 should be used.

Lightweight Mortar 14 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 the spray applied concrete curing membrane Polycure.

Precautions

Health and Safety

Lightweight Mortar 14 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 details are given in the Product Safety Data Sheet.

Fire

Lightweight Mortar 14 is non-flammable.

Yield

Lightweight Mortar 14 is packed in 18kg bags. At a water content of 3.25 litres per bag the yield obtained from these units will be approximately 15.0 litres of mixed material.

Storage And Shelf Life

Lightweight Mortar 14 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

Lightweight Mortar 14 is supplied in:
18kg Bags Product Code TP27

Steel Primer is supplied in:
20kg Bags Product Code ACR01

Acrylic Latex is supplied in:
25 litre polybottles Product Code ACR08

Polycure is supplied in:
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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TECROC
PRODUCTS



Grouts

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