

TECHNICAL DATA

Revision Date 01/2008

LIGHTWEIGHT MORTAR 18

Product Codes

TP87, Packaging listed overleaf

Description

Lightweight Mortar 18 is a Portland cement polymer modified and fibre reinforced 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 medium density high build polymer modified cementitious concrete repair system developing compressive strengths of 19N/mm² at 1 day and 45N/mm² at 28 days. The product is 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 18 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 18 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 in areas of fair faced finishing. Joint filling and facing between precast concrete elements.

Typical Mortar Properties @ 20°C

Compressive Strength

Water content 3.75 litres per 25kg bag

1 Day	7 Days	28 Days
19N/mm ²	32N/mm ²	45N/mm ²

Tensile Strength @ 28 Days 3.0N/mm²

Flexural Strength @ 28 Days 7.0N/mm²

Density 1850 kg/m³

Coefficient of Thermal Expansion 8-11 x 10⁻⁶/°C

Useable Life 45 minutes

Standards

Lightweight Mortar 18 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 18 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 18 is applied as soon as the Acrylic Latex has become tacky and before the priming coat has dried.



Grouts



Structural Support Mortars



Concrete Repair Products



Construction Adhesives



Resin Et Cementitious Anchors



Highway Products



Coatings



Waterproofing



Ground Engineering

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