

Cretex[®] LM

**Lightweight concrete repair mortar
for vertical and overhead surfaces**



“maintenance made easy”



PRODUCT DESCRIPTION

Cretex LM is a Portland cement polymer and fibre modified powder mix, including special shrinkage compensating components and powerful plasticising agents that produce a workable mortar at low water content.
Capable of being applied at a fair faced finish in vertical and overhead situations, the placed product will give protection to exposed reinforcing steel to prevent further deterioration.
Cretex LM is chlorine 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.

TYPICAL USES

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

SUITABLE SUBSTRATES

Cretex LM is designed for use on concrete and may safely be placed in contact with reinforcing steel.

COLOUR

Cretex LM is grey in colour.

PACKAGING

Cretex LM is supplied in 9kg and 18kg units. LM Primer is supplied in 1L bottles.

DIRECTIONS FOR USE

SURFACE PREPARATION

THOROUGH SUBSTRATE PREPARATION IS ESSENTIAL.

All contact surfaces must be sound, clean and provide 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.

DIRECTIONS FOR USE Cont.

PRIMING

The prepared concrete surface and reinforced steel should be primed using *CreTex LM Primer*.

The primer may be used as supplied and is applied using a stiff bristle brush.

Ensure *CreTex LM* is applied as soon as the *LM Primer* has become tacky and before the priming coat has dried.

MIXING

The water requirement for each 9kg unit to produce the mortar is 1.6 - 1.9 Ltrs.

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 using a slow speed heavy duty drill with a mixing paddle.

Mixing should be continued after all the powder has been added to the mixing water until a smooth lump-free mortar is achieved.

APPLICATION

Apply the *CreTex LM* firmly onto the primed area.

It may be necessary to use a gloved hand to place and compact the mortar behind reinforced 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 *CreTex LM* layers may be applied as soon as the initial layer is firm enough not to distort under the new work.

POT LIFE & CURING TIME

The pot life of *CreTex LM* once mixed is approximately 45 minutes.

Curing time is 3 hours at 20°C.

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 or polythene sheeting.

APPLICATION TEMPERATURE

CreTex LM may be applied at temperatures between 5°C and 35°C.

For application at temperatures outside this range please consult Polycote Technical Department.

PHYSICAL PROPERTIES

Typical Mortar Properties @20°C

Compressive Strength 1 day	7.5N/mm ²
Compressive Strength 7 days	17N/mm ²
Compressive Strength 28 days	24N/mm ²
Tensile Strength @ 28 days	1.5N/mm ²
Flexural Strength @ 28 days	3.0N/mm ²
Density	1450kg/m ³
Coefficient of Thermal Expansion	8-11 x 10 ⁻⁶ /°C

APPLICATION THICKNESS

The layer thickness of *CreTex LM* 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.

COVERAGE

The coverage rate per 9kg unit of *CreTex LM* is 1.4m² at 5mm material thickness.

CLEANING

Tools and equipment should be cleaned whilst material is still wet with warm soapy water.

Hands should be cleaned immediately with Organic Hand Cleaner.

SHELF LIFE & STORAGE

The shelf life of *CreTex LM* is 6 months subject to storage in dry conditions at temperatures between 5°C and 45°C.

Storage at higher temperatures or humidity may reduce the shelf life.

HEALTH & SAFETY

Before using this product, please ensure you have received and read carefully both the Hazard Label applied to the container and the relevant Material Safety Data Sheets.

All reasonable care has been taken in supplying the above information. However, any figures quoted do not constitute a specification but represent typical values obtained. It is the customer's responsibility to ensure for himself that the product is fit for the intended purpose and that conditions are suitable. Any technical advice is offered in good faith, but without warranty. This is also applicable when proprietary rights and third parties are involved. In the light of the Company's policy of continual research and development, it is the customer's responsibility to ensure that the information contained herein has not been superseded.

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