

Creutex[®] MC

Product Description

Extremely fast cure / low temperature acrylic-based concrete repair

Creutex MC is a three-part acrylic resin based heavy duty floor repair material designed for use at low temperatures and having very rapid curing characteristics. It offers excellent impact and chemical resistance and may be used for both interior and exterior repairs.

Typical Uses

Its extreme curing characteristics make *Creutex MC* ideal for rapid repairs to floors, steps, nosing, kerbs and expansion joint in areas of constant traffic. It may be used to improve the mechanical resistance and load-bearing characteristics of concrete floors. *Creutex MC* is supplied in two different grades: Standard and Cold Store Grade (CSG). The standard grade is ideal for use in cold areas that are above 0 degrees, such as fridges, whereas the Cold Store Grade is designed for use below 0 degrees, such as cold stores, freezers, and exterior applications in harsh climates.

Suitable substrates: *Creutex MC* may be applied to clean, dry concrete.

Colour: *Creutex MC* is grey in colour.

Packaging: *Creutex MC* is supplied in pre-measured 3-part units comprising a powder pack, a hardener powder and resin.

Direction For Use

Surface Preparation

Thorough substrate preparation is essential.

Concrete repairs should be prepared with squared off edges having a 4mm minimum vertical lip. Remove all loose material - wire brushing is advisable. Sweep clean or vacuum. The surface must be free from grease, oil or contamination. Ensure concrete is dry.

Caution - *Creutex MC* is methyl methacrylate based and has a characteristic odour during the vaporising of the solvent. Although non-toxic and non-injurious to health, this can cause tainting and OPEN food products should therefore be removed or sealed during and following application until the vapour has dispersed.

Priming

The substrate should first be primed with *Polycote MC Primer*, brushing thoroughly into the entire surface. Allow the primer to cure, normally within 45 minutes.

Mixing

Using a clean plastic bucket of at least 15L capacity, mix the resin with the hardener powder. Then add the powder pack and fully mix for 3 minutes using a heavy-duty slow speed drill with a 0-15 litre mixing paddle until a homogenous mix is achieved.

Ensure thorough mixing as an unmixed product will result in a poor or non-cure situation.

Tip: For Cold Store Grade - the workable life of the material will be maximised if it has been conditioned (e.g. store in the cold store itself) prior to mixing.

Application

The material should be placed immediately after mixing.

Tamp the product to ensure a good compaction and trowel out to smooth finish. Do not feather-edge.

Where the depth of repair requires more than one layer (see 'Application Thickness'). *MC Primer* should be applied between layers to aid inter-section bonding – see 'Priming'.

For vertical repairs - where step nosings or expansion joint edges have broken away, the vertical face of the repair material should be supported to prevent slumping.

Suitable sized wooden shuttering should be covered with polythene to reduce adhesion, and should be removed as soon as the material is firm.

Creutex MC may also be used for screeding and cove-forming – please contact Polycote Technical Helpline.

Application Thickness

The recommended range of application thickness of *Creutex MC* is from 4-15mm per layer.

For repair depths exceeding 15mm, the product should be built up in layers not exceeding 15mm each. The product should be allowed to cure between each layer.

Application Temperature

Cretex MC is available in two temperature grades: Standard Grade for 0°C to 30°C application temperature, and Cold Store Grade for -20°C to 0°C application temperature.

Physical Properties

Compressive Strength:	45MPa
Specific Gravity:	2sg
Chloride Ion Content:	less than 0.05%
Adhesion Strength:	greater than 2NPa
Freeze Thaw Thermal Compatibility:	greater than 0.08MP

Pot Life & Curing Time

The pot life of *Cretex MC* is 20 minutes depending on temperature.

Standard version: Initial curing time to foot traffic resistance is approximately 1 hour. Full strength and chemical resistance is achieved after 2 hours.

Cold Store Grade: Initial curing time to foot traffic resistance is approximately 2 hour. Full strength and chemical resistance is achieved after 4 hours.

TIP: These times can be extended with the Cold Store Grade if it is conditioned prior to mixing. In such cases, the pot life can be extended to 40 mins. Initial curing is 6 hours, and full cure is 8-10 hours.

Coverage

The coverage rate per 10kg unit of *Cretex MC* is approximately 0.5m² at 10mm nominal thickness.

Cleaning

Tools and equipment should be cleaned whilst resin is still wet with Solvent Cleaner.

Hands and skin should be cleaned immediately with Organic Hand Cleaner.

Shelf Life & Storage

The shelf life of *Cretex MC* in unopened containers is approximately 6 months subject to conditions of storage. Store in a cool dry environment away from sources of ignition.

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.

Any Questions

Please do not hesitate to contact us for advice regarding the use of this product or its suitability for your particular application.

Our aim is to provide all the technical help you need to make an informed choice and achieve total success.

Polycote Technical Helpline: **01234 846400**

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 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.