

# MAXCURE<sup>®</sup> CC 80

Acrylic Polymer Based Concrete Curing Compound



Maxcure<sup>®</sup> CC 80 is water based acrylic emulsion and specially selected for its water retention properties. The dried film is basically colourless when applied at the correct application rate.

## Uses

For spraying on freshly cast concrete, or newly exposed concrete surfaces after removal of form work, to form a temporary membrane which will retain sufficient moisture for effective curing to take place. Used for curing concrete generally, but specially recommended for large areas of concrete such as pavements, runways and bridge decks; also for vertical or sloping surfaces as on towers, chimneys, canal linings, columns and beams, where water curing is difficult or unreliable.

## Benefits

- Does not stain concrete.
- Can be over coated with decorative systems.
- Reduces surface shrinkage and cracking.
- High solids permit greater coverage.
- Hardens concrete surfaces by promoting proper cement hydration.

## Standards Compliance

Maxcure<sup>®</sup> CC 80 complies with the internationally recognized ASTM C309-90 standards.

## Technical Support

Thermax offers a comprehensive range of high performance, high quality concrete repair and construction products. In addition, Thermax offers technical support service to specifiers, end users and contractors, as well as on-site technical assistance in locations all over the country.

## Special Features

- Used to cure seal and harden concrete/white concrete and renders without the stains caused by resin curing membranes.
- Specially recommended for use over TECFLOOR<sup>®</sup> HT and TECFLOOR<sup>®</sup> HTS.
- It does not have problems associated with adhesion of subsequent finishes common in wax based curing membranes.
- Ideal for dust proofing of hardened concrete floors in warehouses, garages indoor car parks and buildings.

- Cost effective since it can be over-coated with water based and solvent based acrylic coatings, epoxy coatings, polyurethane coatings, etc.

The use of curing membranes on internal floor slabs is generally to be avoided where additional surface finishes are to be applied.

Maxcure<sup>®</sup> CC 80 is however ideal where the concrete surfaces of a floor slab are to be left as 'finished'.

## Properties

|                                 |                         |
|---------------------------------|-------------------------|
| Colour                          | Milky White Liquid      |
| Minimum Application Temperature | 10°C                    |
| Specific Gravity                | 1.0 ± 0.05              |
| Curing Efficiency (ASTM C 309)  | >80%                    |
| Water Loss (ASTM C 156)         | <0.03 kg/m <sup>2</sup> |

## Instructions for Use

### Application

**Exposed Concrete Slabs:** Maxcure<sup>®</sup> CC 80 will be spray applied on to the newly placed concrete slab as soon as possible after it is free from visible surface water evaporates e.g. typically 1 - 2 hours after placing.

**Shuttered and Precast Concrete:** Maxcure<sup>®</sup> CC 80 product should be spray applied to all surfaces as soon as formwork has been removed or the element demoulded.

In all cases the nozzle of the spray should be held approximately 450 mm from the concrete surface and should be passed back and forth to ensure complete and even coverage. The pump pressure should be maintained at a level to produce a fine spray ensuring complete coverage of the surface.

Rate of application depends on requirements but is typically within the range of 200 to 285 ml/m<sup>2</sup>.

**Note:** Maxcure<sup>®</sup> CC 80 can be overcoated with water based and solvent based acrylic coatings, epoxy coatings, and polyurethane coatings that do not rely on penetration for bonding with the surface.

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## Equipment

The preferred and generally used equipment is a knapsack sprayer of the type commonly used in horticulture or pest control. The ideal type is a knapsack sprayer with a capacity of between 5 - 10 litres fitted with a 2.0 m lance and adjustable spray nozzle.

## Equipment Cleaning

Immediately after use the spray equipment should be cleaned out thoroughly with fresh water. If the spray nozzle becomes blocked it can easily be cleaned using white spirit or similar fluid.

## Health & Safety Instructions

Maxcure<sup>®</sup> CC 80 is non-toxic. It is advisable to wear goggles when spraying. Inhalation of the spray should be avoided. Should skin contact with the compound occur it shall be washed with clean water and a skin conditioning cream shall be applied. If the product comes into contact with eyes it shall be washed with clean water. If irritation persists, immediate medical attention shall be sought. If the compound is swallowed, vomiting should not be induced but medical assistance shall be obtained immediately.

## Storage

Maxcure<sup>®</sup> CC 80 has a shelf life of 6 months when stored temperatures between 5°C and 35°C. Containers should be kept airtight to prevent surface evaporation. Freezing or prolonged exposure to direct heat or sunlight must be avoided.

## Packing

Maxcure<sup>®</sup> CC 80 is available in 5, 20 and 235 litres.

## Fire

Maxcure<sup>®</sup> CC 80 is water based and non-flammable.

## Coverage

Typically one should be able to achieve a coverage rate of 3 - 5 m<sup>2</sup> per litre when applied correctly and evenly. However the coverage also depends on substrate texture, porosity and other ambient conditions.

## Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives

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