

# MasterKure<sup>®</sup> 107

Water based concrete curing compound, white pigmented for solar reflectance

## DESCRIPTION

**MasterKure 107** incorporates a white pigment which at recommended coverage rates gives a daylight reflectance value of 60-80%. This permits a high curing efficiency to be maintained even in conditions of intense ambient light.

**MasterKure 107** is a solvent free, membrane forming wax emulsion, suitable for spray application to freshly poured concrete.

The resultant film retains sufficient moisture in the concrete to ensure full hydration of the cement; essential for optimum strength development. Membrane cured concrete is typically harder and exhibits a dust free surface with a reduced incidence of drying shrinkage cracks.

## TYPICAL APPLICATIONS

As a more effective and economical alternative to hessian and water and polythene curing regimes. Suitable for use on all concrete surfaces.

## ADVANTAGES

- Eliminates the need for water
- Single application
- Promotes a harder dust free surface
- Cured film is clear and water repellent
- Reduces drying shrinkage
- High curing efficiency
- Reduced labour costs
- Water based
- Solar reflective

## PACKAGING

**MasterKure 107** is available in 210 litre drums.

## STANDARDS

ASTM C309 Type 2 Class A

## TYPICAL PROPERTIES\*

Appearance	White liquid
Specific gravity	0.954
Flashpoint	Not applicable
Finished film appearance	white solar reflective, tack free, water repellent
Water retention (ASTM C309)	Pass
Drying time (ASTM C309)	3 hours, PASS

## APPLICATION GUIDELINES

The compound should be spray applied as evenly as possible to the freshly placed concrete.

For horizontal surfaces the **MasterKure 107** should be applied as soon as the initial surface sheen has disappeared from the concrete face. In the case of formed concrete, the **MasterKure 107** should be applied immediately on removal of the formwork. To assist breakdown of the **MasterKure 107** film on the vertical and formed surfaces, it is essential to dampen down the concrete with clean water prior to application.

## FILM BREAKDOWN

The time for deterioration of the membrane is dependent on a number of variables, which include film thickness, degree of exposure to weathering, traffic, UV light, and the porosity of the substrate concrete.

## SUBSEQUENT SURFACE FINISHES

It is important that the complete removal of the **MasterKure 107** should be ensured prior to the application of any surface finish or additional treatment. It is recommended that where the concrete is to receive a coating or the application of tiles, the use of **MasterKure 181** is considered.

**MasterKure 181** is a resin based non-degrading curing membrane meeting the requirements of ASTM C-309 Type 1 Class B. It is additionally formulated to act as a primer for many finishes or to seal concrete surfaces and provide a degree of abrasion to flatwork.

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## COVERAGE / YIELD

The recommended rate of application is 5-6 m<sup>2</sup>/litre. This corresponds to that which **MasterKure 107** has been tested, and at which it attains the claimed degree of curing efficiency. In favourable conditions such as shaded interior surfaces, adequate curing can be achieved with extended coverage rates.

## STORAGE AND SHELF LIFE

Shelf life is 12 months when stored under cover, out of direct sunlight and protected from extremes of temperature.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult Master Builders Solutions Technical Services Department.

## HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

## QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

\* Properties listed are based on laboratory controlled tests.

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### STATEMENT OF RESPONSIBILITY

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### NOTE

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