

# 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.

### Primary uses

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.

### \*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

### Standards

ASTM C309 Type 2 Class A

### Directions for use

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.

### Coverage

The recommended rate of application is 5-6 square metres per 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.

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## 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.

## Storage

Shelf life is upto 6 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 BASF's 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.

## Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

## Quality and care

All products originating from BASF's 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, ISO 14001 and OHSAS 18001.

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\* Properties listed are based on laboratory controlled tests.

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**As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.**

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### BASF Construction Chemicals UAE LLC

P.O. Box 37127, Dubai, UAE

Tel: +971 4 8090800

www.basf-cc.ae

Fax: +971 4 8851002

e-mail: marketingcc.mideast@basf.com



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