



The Chemical Company

MASTERKURE[®] 106

Water based concrete curing compound / bond breaker

Description

MASTERKURE[®] 106 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.

The film can also act as a bond breaker between initial and subsequent concrete pours.

Primary uses

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

As a bond breaking film for the vertical face of precast bridge segments during match casting.

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.

Packaging

MASTERKURE[®] 106 is available in 210 litre drums.

*Typical properties

Appearance:	White liquid
Specific gravity:	1.00
Flashpoint:	Not applicable
Finished film appearance:	Clear, tack free, water repellent film
Water retention ASTM C156:	Pass
Drying time ASTM C309:	Less than 4 hours

Standards

ASTM C309 Type 1 Class A
AASHTO M-148 Type 1 Class A

Directions for use as a curing compound

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

For horizontal surfaces MASTERKURE[®] 106 should be applied as soon as the initial surface sheen has disappeared from the concrete surface. In the case of formed concrete, the MASTERKURE[®] 106 should be applied immediately on removal of the formwork. To assist breakdown of the MASTERKURE[®] 106 film on vertical and formed surfaces, it is essential to dampen down the concrete with clean water prior to application.

Directions for use as a bond breaker

The compound should be spray applied to form an even film covering the entire surface against which the subsequent segment will be cast. If necessary more than one coat should be applied. The actual coverage and number of coats will be dependent on texture and porosity of the surface. The recommended application rate when used as a bond breaker is 4 square meters per litre.

MASTERKURE[®] 106

Coverage

The recommended rate of application is 5-6 square metres per litre. This corresponds to that at which MASTERKURE[®] 106 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.

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[®] 106 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.

Specification clause

MASTERKURE[®] 106

Where indicated, concrete shall be cured by application of MASTERKURE[®] 106, membrane forming wax emulsion manufactured by BASF or similar approved; to the following specification:

Specification type:

ASTM C309: Type 1 Class A

AASHTO M-148

MASTERKURE[®] 106 is to be applied at a coverage rate of 5 to 6 square metres per litre and strictly in accordance with the manufacturer's instructions.

Storage

Shelf life is up to 6 months when stored under cover, out of direct sunlight and protected from extremes of temperature.

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.



The Chemical Company

MASTERKURE[®] 106

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.

05/95 BASF_CC-UAE revised 02/2012

* Properties listed are based on laboratory controlled tests.

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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

BASF Construction Chemicals UAE LLC

P.O. Box 37127, Dubai, UAE

Tel: +971 4 8090800

Fax: +971 4 8851002

www.basf-cc.ae

