

# MASTERKURE™ 191A

**Aluminum enriched resin based, High curing efficiency curing compound for concrete**

## Description

MASTERKURE 191A is a non-degrading, membrane-forming liquid based on resin suitable for spray application to freshly poured concrete. MASTERKURE 191A is available as a silver color liquid.

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

## Uses

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

- Large areas of external concrete paving
- Concrete road works

It is not recommended for application when subsequent renders, toppings or coatings are to be applied within the degradation time unless it is removed by cleaning if insufficient time has elapsed to achieve full degradation.

## Advantages

- Eliminates the need for water ponding
- Improves moisture retention in concrete
- Prevents rapid water evaporation
- Promotes a harder dust free surface
- Reduces drying shrinkage
- Reduces the incidence of hairline cracks
- High curing efficiency (> 90 %)
- Single coat application
- Reduced labour costs

## Typical properties

Appearance	: Silver colour liquid
Specific gravity	: 0.822 – 0.842 at 25°C
Dry film appearance	: Silver colored, tack free
Water loss (ASTM C156)	: < 0.4 Kg/m <sup>2</sup> at 72 hours
Drying Time	: < 3 hours
Reflectance, ASTM E1347	: > 60%
Curing Efficiency (BS 7542 at 5m <sup>2</sup> /L)	: > 90%

## Standards

- ASTM C309 Type II Class B

## Specification clause

The high curing efficiency, solar-reflective curing compound shall be MASTERKURE 191A, a membrane forming, resin based, aluminized formulation. The product shall comply with ASTM C 309 Type II, Class B. The product shall exhibit water loss not more than 0.4 Kg/m<sup>2</sup> in 72 hours when tested as per ASTM C156. The product shall have high curing efficiency of +90% when tested to BS7542 specifications.

## Directions for use

### Surface Preparation

Surface must be sound and properly finished. Surface is ready for application of MASTERKURE 191A, when damp, but not wet, and it can no longer be marred by foot traffic. In the case of formed concrete, the product should be applied immediately on removal of the formwork.

### Application

Stir MASTERKURE 191A thoroughly before using. Apply a continuous, uniform film by low-pressure spray. Application not recommended when surface temperature exceeds 40°C

Do not thin, avoid forming puddles.

### Cleaning

Use CLEANING SOLVENT NO. 2 to clean rollers and spray equipment before MASTERKURE 191A become dry. Any excess cured material will have to be mechanically removed.

### Coverage

The recommended rate of application is 4.5-5.5 square metres per litre. This corresponds to that at which MASTERKURE 191A has been tested, and at which it attains the claimed degree of curing efficiency.

### Packaging

MASTERKURE 191A is available in 20 and 210 litre drums.

### Storage and Shelf life

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.



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Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice please consult BASF's Technical Services Department.

#### Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

#### Note

All BASF Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

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

#### Disclaimer

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