



The Chemical Company

MASTERKURE[®] 181

Acrylic based, concrete curing compound

DESCRIPTION

MASTERKURE 181 is a ready to use clear membrane curing compound based on selected acrylic resins, which when applied on to freshly placed concrete surfaces provides an efficient curing membrane with excellent non yellowing properties. It can be supplied with a fugitive dye as **MASTERKURE 181FD**.

The curing membrane also acts as a primer for selected surface coatings thereby avoiding the need to remove it before application of such coatings.

MASTERKURE 181 conforms to ASTM C309 : Type 1, Class B.

FIELDS OF APPLICATION

MASTERKURE 181 is recommended for curing freshly placed or deshuttered concrete and mortar, both indoors and outdoors, such as;

- concrete floors
- slipformed concrete
- repaired patches
- runways and pavements
- bridge abutments
- exposed architectural concrete

FEATURES AND BENEFITS

Effective moisture retention in mortar and concrete Facilitates complete hydration of cement resulting in greater strength and superior wear resistance.

Non yellowing Retains natural concrete colour.

Seals surface Protects concrete from staining especially in early ages.

Acts as a primer to selected surface finishings Removal of membrane not necessary before application of certain surface finishings. Saves time, and labour cost.

TYPICAL PERFORMANCE DATA

ASTM C309 specifies the maximum permissible water loss after application of the curing compound as 0.55 kg/m² in 72 hours.

Typical results for **MASTERKURE 181** on concrete test samples:

Application rate	Measured loss of water in 72 hours
5 m ² /L	0.47 kg/m ²

PROPERTIES

Supply form	: liquid
Colour	: clear / coloured
Density	: 0.79 kg/L
Drying time (hr : min) at 20°C (ASTM C 309)	: 1.35 (Specified : 4 hrs max)

APPLICATION

Use **MASTERKURE 181** as supplied without dilution. It should be applied after the final finishing operation as soon as the concrete or mortar surface has hardened sufficiently to prevent marring. The surface should be damp but with no free water on it. In the case of formed concrete, apply immediately after striking the formwork.

Delaying the application until the next day will allow substantial loss of moisture reducing the effectiveness of the curing membrane.

For best results, apply an even coat by a low pressure spray equipment (knapsack sprayer) or a wide short nap roller, or brush. With all methods, take adequate care to prevent marring of concrete surface.

Apply the curing compound evenly on all exposed concrete surfaces.

It is important to avoid leaving patches of untreated areas. Use **MASTERKURE 181FD** with the fugitive dye to identify areas treated, or ensure that there are no breaks during application till a well marked area is completely treated.

CLEANING

Clean the tools and equipment using xylol or lacquer thinner.

Subsequent surface finishing

The specially selected resins in **MASTERKURE 181** form effective bonds with a variety of paints and finishes given below.

- Unmodified and polymer modified cementitious mortars.
- Mortars and adhesives normally used for installing tiles, linoleum etc.
- Paints based on PVA, OVC, or acrylic co-polymers.
- Bituminous emulsions, etc.

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Hence, it is not necessary to remove the membrane for applying these surface finishes. However it is recommended that a sample test area is carried out with the finish chosen to ensure that the required bond is achieved.

ESTIMATING DATA

The recommended coverage of **MASTERKURE 181** is 4.5 m²/L to 5.5 m²/L. Actual coverage depends upon the method of application, the texture and porosity of the surface. Therefore material requirement is 0.2 L/m² (if applied at the rate of 5 m²/L).

PACKAGING

MASTERKURE 181 is available in 20 L pails and 205 L drums.

SHELF LIFE

MASTERKURE 181 can be stored in tightly sealed original containers for 12 months, at constant temperature.

PRECAUTIONS

Health : **MASTERKURE 181** contains certain chemicals which can cause skin irritation if exposed and respiratory reaction if inhaled.

Safety : Wear gloves and masks while handling the product. Wash thoroughly after handling.

Should spillage occur on clothes, remove the contaminated clothing and wash exposed skin using soap and water.

In case of accidental eye contact, wash with copious amount of water and seek medical help.

If ingested drink a glass of water and do not induce vomiting. Consult doctor immediately.

Fire : The vapours of certain ingredients in **MASTERKURE 181** are flammable. Avoid exposure to naked flame while handling the product. Do not smoke.

For detailed Health, Safety, Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

Flash Point : 41°C.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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