

MasterKure[®] 181

Acrylic resin based multi-rôle curing, sealing and protective membrane for concrete

DESCRIPTION

MasterKure 181 is a non-degrading, membrane-forming liquid based on acrylic resin suitable for spray application to freshly poured concrete. **MasterKure 181** is available as a clear opaque liquid and white solar reflective version. 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. Additionally, the membrane acts as a primer system for many subsequent surface finishes that do not rely on penetration for substrate bond. When applied to floors, the **MasterKure 181** seals and dustproofs the surface, eliminating the primary source of abrasion and enhancing durability.

TYPICAL APPLICATIONS

As a more effective and economical alternative to separate curing and priming/sealing regimes. Suitable for use on all concrete surfaces.

- Surfaces subject to finishing treatments.
- Economical enhancement of concrete flatwork.
- In high-rise construction to eliminate the requirement for water.

ADVANTAGES

- Eliminates the need for water.
- Imparts a harder dust free surface.
- Does not support the growth of bacteria.
- Non degrading, acts as a primer system.
- Minimal delay for overcoating etc.
- Abrasion resistant floors.
- High curing efficiency.
- Reduced labor costs.
- Reduces chloride penetration.

PACKAGING

MasterKure 181 is available in 210 liter drums.

TYPICAL PROPERTIES

Appearance:	Clear/Opaque liquid
Specific gravity: Clear/White	0.810 -0.858 at 25°C
Flashpoint:	35°C (PMCC)

Finished film appearance: Clear or White, tack free, water repellent film

*Water Retention (ASTM C309): Pass

*Drying Time (ASTM C309): 1 hour and 45 mins at 23°C

- Result available for the Clear variant

STANDARDS

ASTM C309 Type 1 Class B and Type 2 Class B

DIRECTIONS FOR USE

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

For horizontal surfaces the **MasterKure 181** should be applied as soon as the initial surface sheen has disappeared from the concrete face. In the case of formed concrete, the product should be applied immediately on removal of the formwork.

COVERAGE

The recommended rate of application is 4.5 to 5.5 square meters per liter. This corresponds to that at which **MasterKure 181** has been tested, and at which it attains the claimed degree of curing efficiency. In favorable conditions such as shaded interior surfaces, adequate curing can be achieved with extended coverage rates.

When using **MasterKure 181** for floor areas where maximum chemical and wear resistance is required, it is recommended that a further coat be applied after 24 hours.

SUBSEQUENT SURFACE FINISHES

The acrylic resin in **MasterKure 181** ensure that bond is maintained with adhesives used for installing tiles, and other floor coverings. **MasterKure 181** will act as a

primer for paint systems and will enable most surface treatments to progress with minimal delay. Typical surface treatments that will bond to surfaces with **MasterKure 181** are:

- Water based emulsion paints containing PVA, PVC or acrylic co-polymers.
- Tile adhesives based on the above polymers.
- Bituminous emulsions and solutions.

MasterKure® 181

Acrylic resin based multi-rôle curing, sealing and protective membrane for concrete

- Thin section polymer modified cementitious systems.
- Polyurethane resin systems.
- Polysulphide systems.
- Epoxy resin compositions which do not rely on penetration for substrate bond.

For further information regarding compatibility of **MasterKure 181**, contact Saudi Master Builders Solutions Technical Services Department.

SPECIFICATION CLAUSE

Where indicated, concrete shall be cured by application of **MasterKure 181**, curing compound based on acrylic resin manufactured by Saudi Master Builders Solutions or similar approved; to the following specification:

Specification type ASTM C309: Type 1 Class B
 AASHTO M-148

MasterKure 181 is to be applied at a coverage rate of 4.5 to 5.5 square meters per liter and strictly in accordance with the manufacturer's instructions.

STORAGE

Store under cover, out of direct sunlight and protect 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'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. 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. For further information refer to the material safety data sheet.

NOTE

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

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

QUALITY AND CARE

All Master Builders Solutions Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and Master Builders Solutions ESHQ recommendations.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC-Group in many countries

CONTACT

Should you require any further information, please do not hesitate to contact us:

www.master-builders-solutions.com/en-sa

enquirycc.saudi@mbcc-group.com

M: +966 13 853 8600

Master Builders Solutions Saudi Arabia for Manufacturing LLC.

P.O. Box 1884, Al Khobar, KSA

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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.

Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with Master Builders Solutions and possible resulting damages are in the sole responsibility of the customer.

All descriptions, drawings, photographs, data, ratios, weights i.e. stated herein can be changed without advance notice and do not represent the condition of the product as stipulated by contract. It is the sole responsibility of the recipient of our products to observe possible proprietary rights as well as existing laws and provisions. The reference of trade names of other companies is no recommendation and does not exclude the use of products of similar type. Our information only describes the quality of our products and services and is no warranty. Liability is accepted for incomplete or incorrect particulars in our data sheets only in the event of intent or gross negligence, without prejudice to claims under product liability laws.