

# MasterKure 181

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

## MATERIAL 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 labour costs
- Reduces chloride penetration

## PACKAGING

**MasterKure 181** is available in 210 litre drums.

## STANDARDS

ASTM C309 Type 1 Class B and Type 2 Class B

## TYPICAL PROPERTIES\*

Properties listed are for guidance and are not a guarantee of performance.

Appearance	Clear/Opaque liquid
Specific gravity @25°C	0.810 – 0.858
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 min at 23°C

## DIRECTIONS FOR USE

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

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

## 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.
- 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 Master Builders Solutions' Technical Services Department.

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## SPECIFICATION CLAUSE

Where indicated, concrete shall be cured by application of **MasterKure 181**, curing compound based on acrylic resin manufactured by 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 6 to 8m<sup>2</sup> / L and strictly in accordance with the manufacturer's instructions.

## COVERAGE AND YIELD

The recommended rate of application is 6 to 8 m<sup>2</sup> / L. This corresponds to that at which **MasterKure 181** 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.

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.

## STORAGE AND SHELF LIFE

Store under cover, out of direct sunlight and protect from extremes of temperature. The 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 consult Master Builders Solutions' Technical Services Department.

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## 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. For further information refer to the material safety data sheet.

## NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

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All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

\* Properties listed are based on laboratory-controlled tests.