

MasterKure[®] 181S

Silane siloxane resin based multi-role curing, sealing, priming & impregnating protective treatment for concrete

DESCRIPTION

MasterKure 181S is a non-degrading, membrane-forming liquid based on silane siloxane resin 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. 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 181S** 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
- Penetrative protective treatment
- Imparts a harder dust free surface
- Non degrading, acts as a primer system
- Minimal delay for overcoating etc
- Abrasion resistant floors
- Water repellent concrete
- High curing efficiency
- Reduced labour costs
- Reduces chloride penetration

PACKAGING

MasterKure 181S is available in 193 litre drums.

STANDARDS

ASTM C309 Type 1 Class B

TYPICAL PROPERTIES*

Appearance	Clear/Pale Yellow liquid
Specific gravity at 25°C	0.825
Flashpoint (PMCC)	35°C
Finished film appearance	Clear, tack free, water repellent film
*Water Retention (ASTM C309)	Pass
*Drying Time (ASTM C309) at 23°C	1 hour and 45 mins

* Result available for the Clear variant

APPLICATION GUIDELINES

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

For horizontal surfaces the **MasterKure 181S** 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.

SUBSEQUENT SURFACE FINISHES

The resin in **MasterKure 181S** ensure that bond is maintained with adhesives used for installing tiles, and other floor coverings. **MasterKure 181S** 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 181S** are:

- Water based emulsion paints containing PVA, PVC or acrylic co-polymers.
- Tile adhesives based on the above polymers.
- Bituminous emulsions and solutions.
- Polymer modified cement systems.
- Polyurethane resin systems.
- Polysulphide systems.

MasterKure[®] 181S

For further information regarding compatibility of **MasterKure 181S**, contact Master Builders Solutions UAE's Technical Services Department.

SPECIFICATION CLAUSE

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

Specification type ASTM C309: Type 1 Class B

MasterKure 181S is to be applied at a coverage rate of 4.5 to 5.5 m²/litre and strictly in accordance with the manufacturer's instructions.

COVERAGE / YIELD

The recommended rate of application is 4.5 to 5.5 m²/litre. This corresponds to that at which **MasterKure 181S** 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 181S** for floor areas where maximum chemical and wear resistance is required, it is recommended that a further coat be applied after 24 hours.

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 Technical Services Department.

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.

QUALITY AND CARE

All products originating from Master Builders Solutions 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 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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

MBS_CC-UAE/Kure_181S_12_94/v5/11_17

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.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

Master Builders Solutions
Construction Chemicals LLC
P.O. Box 37127, Dubai, UAE
Tel: +971 4 8090800
www.master-builders-solutions.com/en-ae

Disclaimer: the TÜV mark relates to certified management system and not to the product mentioned on this datasheet



A brand of
MBCC GROUP