

MasterKure[®] 101W

Acrylic resin water based multi-role curing and sealing compound for concrete

DESCRIPTION

MasterKure 101W is a solvent free non-degrading, membrane-forming liquid curing compound based on an acrylic resin emulsion 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 101W** 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 most concrete surfaces.
- Surfaces subject to certain finishing treatments.
- Economical enhancement of concrete flatwork.
- In high-rise construction to eliminate the requirement for water curing.

ADVANTAGES

- Eliminates the need for water curing
- 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 101W is available in 210 L drums.

STANDARDS

ASTM C309 Type 2 Class B

TYPICAL PROPERTIES*

Appearance	White liquid
Specific gravity @ 25°C	1.025
VOC	<10 g/l
Finished film appearance	Whitish tack free
Water Retention ASTM C309	Pass
Drying Time @ 25°C ASTM C309	<3 h

APPLICATION GUIDELINES

MasterKure 101W must be stirred well before use. This can be done through the drums large bung hole using a rod reaching the bottom, stirring for 5 minutes or by rolling the drum around on site and up-ending it occasionally to ensure the pigment is fully distributed.

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

For horizontal surfaces the **MasterKure 101W** 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

Cementitious renders/plasters up to 10mm thickness can be applied directly over **MasterKure 101W** cured surfaces providing it is ensured there is no surface laitance, dirt, oil or grease on the surface. The bond strength must be assessed for renders/plasters greater than 10mm thickness.

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COVERAGE / YIELD

The recommended rate of application is 4.5-5.5 m²/L. This corresponds to that at which **MasterKure 101W** has been tested, and at which it attains the claimed degree of curing efficiency.

When using **MasterKure 101W** for floor areas where mild chemical and wear resistance is required, it is recommended that a further coat be applied after 24 hours

SPECIFICATION CLAUSE

Where indicated, concrete shall be cured by application of **MasterKure 101W**, curing compound based on acrylic resin manufactured by Master Builders Solutions UAE or similar approved; to the following specification:

Specification type ASTM C309: Type 2 Class B
 AASHTO M-148

MasterKure 101W is to be applied at a coverage rate of 4.5-5.5 m²/L and strictly in accordance with the manufacturer's instructions.

STORAGE AND SHELF LIFE

Shelf life is 12 months when stored in a shaded area to 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. 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.

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STATEMENT OF RESPONSIBILITY

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NOTE

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