

MasterKure[®] 185

Acrylic polymer based, multi-role curing, sealing and protective membrane

DESCRIPTION

MasterKure 185 is a non-degrading, membrane-forming liquid based on specially formulated acrylic polymer for curing newly placed or freshly de-shuttered concrete; assists in the retention of water during hydration. 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 185** seals and dustproof the surface, eliminating the primary source of abrasion while enhancing durability.

MasterKure 185 is available as a clear translucent liquid and is also available as white solar reflective version.

RECOMMENDED USES

MasterKure 185 is a more effective and economical alternative to separate curing and priming/sealing regimes and 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.

FEATURES AND BENEFITS

- Improves moisture retention in concrete
- Prevents rapid water evaporation
- Sealer & dustproof
- Good abrasion resistance – long protection
- Reduces drying shrinkage
- Reduces the incidence of hairline cracks
- High curing efficiency
- Available in Solar reflective grade
- Non – degrading – no removal required
- Act as primer for protective coatings

PERFORMANCE TEST DATA

Appearance	: Clear / White liquid
Specific gravity Clear	: 1.04 ± 0.02 @ 25° C
Specific gravity White	: 1.07 ± 0.02 @ 25° C
Day light reflectance	: > 60%

(ASTM E1347)	
Dry film appearance	: white / Clear
Loss of Water (ASTM C156)	: < 0.55 kg /m ²
Drying time (ASTM C309)	: Less than 3 Hours

TEST CERTIFICATION/APPROVALS

- Clear version - ASTM C 309 Type I Class B
- White version - ASTM C 309 Type II Class B

COVERAGE

The recommended rate of application is 4-6 square metres per litre. This corresponds to that at which **MasterKure 185** 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 185** for floor areas where maximum chemical and wear resistance is required, it is recommended that a further coat be applied after 24 hours.

In place of the above recommendations, the rates of cover stipulated in a specification should at all times be observed.

APPLICATION

Surface Preparation

NEWLY PLACED CONCRETE:

Surface must be sound and properly finished. Surface is ready for application of **MasterKure 185**, when damp, but not wet, and it can no longer be marred by foot traffic.

NEWLY CURED BARE CONCRETE:

Level any gouges. Remove all dirt, dust, oil, grease, asphalt, and foreign matter. Clean with caustics and detergents as required. Citrus degreaser is excellent for removing oil stains and many curing compounds. Rinse thoroughly and allow drying. Apply **MasterKure 185** to damp but not wet surfaces.

AGED CONCRETE:

Restore surface to soundness by patching, grouting, and filling cracks or holes. Surface must also be free of any dust, dirt, and other foreign



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MasterKure[®] 185

matter. Use power tools or strippers to remove any incompatible sealers or coatings. Clean as required, following procedure under "Newly cured bared concrete".

Important Note: Apply MasterKure 185 after 24 hrs of curing of the cube to improve the bonding on the substrate.

Application

Stir **MasterKure 185** thoroughly before using. Apply a continuous, uniform film by low-pressure spray, short nap roller or brush.

Subsequent surface finishes

MasterKure 185 ensures that the bond is maintained with adhesives used for installing tiles, and other floor coverings. **MasterKure 185** 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 185** are:

- Water based emulsion paints containing PVA, PVC and acrylic co-polymers
- Thin section polymer modified cementitious systems.

For further information regarding compatibility of **MasterKure 185**, contact your local BASF Representative.

Cleaning

Use water to clean rollers and spray equipment before **MASTERKURE 185** dries. Any excess cured material will have to be mechanically removed.

SUGGESTED SPECIFICATION

The non-degrading membrane forming curing & sealing compound shall be **MasterKure 185**, acrylic polymer based formulation. The product

shall comply with ASTM C 309 Class B. The product shall exhibit water loss not more than 0.55 kg/m² in 72 hours when tested as per ASTM C156. The product shall form non-degrading abrasion resistance film which shall also exhibit capability as primer for subsequent protective coatings or bituminous overlays.

PACKAGING

MasterKure 185 is available in 5 & 20 litre packs.

STORAGE /SHELF LIFE

MasterKure 185 must be stored where temperatures do not drop below +5°C. Store under cover, out of direct sunlight and protect from extremes of temperature.

Shelf life is 6 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 your local BASF representative.

PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

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BASF India Limited
Construction Chemicals Division
Plot.No.12,TTC Area
Thane Belapur Road,Turbhe
Navi Mumbai - 400705,India
Tel: +91 22 67127600, Fax: +91 22 67917358
E-mail: construction-india@basf.com , www.master-builders-solutions.basf.in

