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# MasterKure<sup>®</sup> 181 (formerly MASTERKURE 181)

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

## DESCRIPTION

**MasterKure 181** is a non-degrading, membrane-forming liquid based on specially formulated acrylic resin suitable for curing newly placed or freshly deshuttered 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 181** seals and dustproof the surface, eliminating the primary source of abrasion and enhancing durability.

**MasterKure 181** is available as a clear translucent liquid and white solar reflective version.

## RECOMMENDED USES

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.

## 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 & bitumen

## PERFORMANCE TEST DATA

Appearance	: Clear/white liquid
Specific gravity Clear	: 0.82 ± 0.01 at 25° C
White	: 0.855 ± 0.01 at 25° C
Flash point	: 30°C

Dry film appearance	: Clear or white
Loss of Water (ASTM C156)	: < 0.55 kg /m <sup>2</sup>
Drying time (ASTM C309)	: 45 mins at 25°C

## TEST CERTIFICATION/APPROVALS

- Clear version - ASTM C309 Type I Class B
- White version - ASTM C309 Type II Class B

## COVERAGE

The recommended rate of application is 4-6 square metres per litre. 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.

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 181**, 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 to dry. Apply **MasterKure 181** 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 matter. Use power tools or strippers to remove any



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incompatible sealers or coatings. Clean as required, following procedure under "Newly cured bared concrete".

### Application

Stir **MasterKure 181** thoroughly before using. Apply a continuous, uniform film by low-pressure spray, short nap roller or brush.

Application not recommended when surface temperature exceeds 40°C

### Subsequent surface finishes

The resin in **MasterKure 181** ensures 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 and acrylic co-polymers
- Tile adhesives based on the above polymers
- Bituminous emulsions and solutions.
- Thin section polymer modified cementitious systems.
- Polyurethane resin system
- Polysulphide systems
- Epoxy resin compositions which do not rely on penetration for substrate bond.

For further information regarding compatibility of **MasterKure 181**, contact your local BASF Representative.

### Cleaning

Use CLEANING SOLVENT NO. 2 to clean rollers and spray equipment before **MasterKure 181** become dry. Any excess cured material will have to be mechanically removed.

### SUGGESTED SPECIFICATION

The non-degrading membrane forming curing & sealing compound shall be **MasterKure 181**, acrylic resin based formulation. The product shall comply with ASTM C 309 Class B. The product shall exhibit water loss not more than 0.55 kg/m<sup>2</sup> 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 181** is available in 5 & 20 litre packs.

### STORAGE /SHELF LIFE

**MasterKure 181** 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 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 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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