

MasterSeal[®] HLM 6000

High-build Low VOC Multi-purpose Water-base Membrane Coating

DESCRIPTION

MasterSeal HLM 6000 is a single component, high build, water-base, elastomeric liquid membrane waterproofing system. It is formulated as a terpolymer membrane which can be used on almost all substrate types - metal, reinforced concrete, wood - to provide an economical but effective protective, waterproof barrier over the applied surfaces. The cured **MasterSeal HLM 6000** film is tough yet flexible, and has good exterior exposure performance capabilities. The membrane cures to an extremely durable, seamless, moisture and UV resistant protective coating which bonds strongly to the applied surfaces. **MasterSeal HLM 6000** is also fast drying, odorless and is able to withstand exposure to harsh environments.

FIELDS OF APPLICATION

MasterSeal HLM 6000 has multiple users, and its diverse applications include use as a:

- Horizontal damp-proofing layer and vapour barrier
- Wet area waterproof membrane
- Planter box and water feature waterproof membrane
- FRC protective coating layer
- Repair system for asphaltic coatings
- Tanking, substructure waterproofing
- Vapour barrier and protection for retaining walls
- Moisture and soluble salts barrier for concrete surfaces
- Anti-carbonation coating to exterior exposed walls, gable ends

FEATURES AND BENEFITS

- **Single component** - Use direct from pail, no mixing, easy to use, no errors on site.
- **Water-base, low VOC** - Safe to users, safe to use in confined, poorly ventilated areas
- **Non-staining** - Will not discolour tiles and grout, or cause water stains
- **Non hazardous** - No toxic solvents, chemicals, tar, isocyanate in **MasterSeal HLM 6000**
- **Odourless** - No lingering objectionable solvent odors after application

- **Fully Green product** - Water-base product provides environmentally friendly usage
- **Seamless protection** - Homogeneous, seamless barrier with no laps, joints when cured
- **Total Adhesion** - Adheres strongly; compatible with all quality adhesives, wraps
- **Long term flexibility** - Flexible, good recovery, does not embrittle.
- **Trafficable** - Able to accommodate pedestrian traffic
- **UV Resistant** - Specially formulated to resist UV conditions in exposed usage.

TYPICAL PERFORMANCE DATA

Elongation at break (ASTM D412) (Film aged 7 days, ambient)	:>280% Membrane)
Tensile strength (ASTM D412)	:>2.5Nmm ²
Water Vapour Transmission (ASTM E96):	:~25 g/m ² /24 hours
Flexibility (ASTM D1737) (3mm mandrel):	:Pass - 180 °C bend
Shore A Hardness (ASTM D2240):	:Approx. 70
Exposure to Fungi, Algae (SS345:1990):	:Passed – Unaffected
Water Penetration Test:	:Passed – No Penetration, 2.0m head, 12hrs
Adhesion to substrate (ASTM D4541):	:1.30 – 1.40 N/mm ²
Volatile Organic Compounds (VOC):	:Near Zero.

PROPERTIES

Appearance	: Thick, Smooth cream
Specific Gravity	: 1.20 to 1.30
Service Temperature	: -10 °C to 80 °C
Color	: Brown-black, Black

APPLICATION

To achieve a homogeneous mix, the material must be thoroughly mixed with a mixing device at about 300 rev/min before using. Ensure that the mixing device reaches side and bottom areas of the mixing vessel. Stir for at least 3 minutes or until the blend is homogeneous and streak free.



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MasterSeal[®] HLM 6000

Surface Preparation

In new construction, ensure that the drains, vents and drain openings are properly located.

Surfaces should be structurally sound, clean dry and free from loose particles, oil, grease, or any other contaminants. Cement laitance, loose particles, mould release agents, curing membranes, and other contaminants must be removed by wet grit, blasting, high pressure water jetting (approx. 150 bars) or other such effective methods.

Existing leaks:

Arrest all existing water leaks from the surface using MasterSeal 590 or other suitable method. Consult BASF Construction Chemicals for advice.

Surface defects:

Repair all static cracks using MasterFlex 472.

Dynamic joints:

Use MasterFlex 472 to seal the joints. Apply a debonding coat of wax or bond breaker tape over the cured sealant before the application of **MasterSeal HLM 6000**.

Vents, drains, pipes, etc:

Clean any rust from the metal pipes and vents. Apply anti-rust treatment such as MasterEmaco P 5000/MasterEmaco S 340 followed by a protective paint before refitting. Cut out approximately 10mm wide groves around any pipe protrusions and seal them with MasterSeal NP 1.

Placing

MasterSeal HLM 6000 can be easily applied by brush, roller or spray in several thin coats to the desired dry film thickness. A minimum of 2 coats is recommended.

The recommended total DFT of the final cured system is from 200 to 750 microns DFT depending on the desired service and substrate type.

MasterSeal HLM 6000 final cured film thickness should not be less than a minimum of 750 microns DFT for any heavy duty waterproofing applications. For such applications, a suitable fiberglass reinforcing mesh is recommended

CLEANING

Clean up with water before curing occurs; cured material can be removed with a GP solvent.

ESTIMATING DATA

Approximately 5 to 8 m² per liter at 75-100µ DFT, depending on substrate porosity and profile.

PACKAGING

MasterSeal HLM 6000 is available in 18 litres.

SHELF LIFE

MasterSeal HLM 6000 can be stored for 12 months in tightly sealed original packaging if stored in a cool, dry well-enclosed area.

PRECAUTIONS

Fire: Non-flammable

Skin Contact: Occasional contact is unlikely to have any adverse effect except on particularly sensitive skin. As general precaution, avoid repeated or prolonged contact. Remove skin contamination when wet with water. Use a proprietary hand cleaner if the product has dried.

Eye Contact: Unlikely to cause damage, no special precautions are necessary. However, as eyes are a sensitive area, contact should be avoided. In the event of accidental contact. Irrigate immediately with plenty of water.

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