



PACTOProof HLM 600

One Part Polyurethane Elastomeric Membrane

WATERPROOFING

DESCRIPTION

PACTOProof HLM 600 is a black liquid applied, pitch modified, high polymer, one part polyurethane, VOC compliant, which cures upon exposure to atmospheric moisture to form a tough, flexible and elastomeric membrane with excellent water resistance and low vapor permeability.

TYPICAL USES

To provide waterproofing membrane to building and civil engineering structures in variety of situations such as:

- Tiled floors in bathrooms, shower rooms, kitchens and plant rooms
- Foundations and basement structures
- Suspended floors, parking decks and promenades over utilized areas
- Balconies, roof terraces, patios and planter boxes
- Inverted roofs (Consult our Technical Department for additional information)
- Non potable water retaining structures, sewage tanks, inspection pits and tunnels

INTERNATIONAL STANDARDS COMPLIANCE

PACTOProof HLM 600 meets the requirements of ASTM C 836-95

ADVANTAGES

- Single component which requires no mixing or heating
- Excellent adhesion to most common construction substrates
- Highly flexible with excellent crack bridging properties (up to 2mm)
- Good application characteristics by brush or spray
- Excellent water resistance and low vapor permeability
- Does not readily embrittle with age when exposed to UV radiation or weathering – U.V. resistant grade available
- Resistant to cracking at low temperatures and does not suffer flow at high temperatures
- Good resistance to industrial environments

TYPICAL PROPERTIES

Color	Black
Solid content	50 % ± 5
Specific Gravity	0.98 ± 0.02 @ 25°C
Elongation	> 800%
Tensile strength	2.5 N/mm ²
Tear Strength	>34 N/mm
Service Temperature	-10 °C to 85 °C
Water Vapour Transmission	<0.35 g/m ² /24 hours
Cure time @ 25°C	24 hours per coat
Chemical Resistance	Salt solutions, mild detergents, Acids and Alkalis

Compliance with ASTM C 836

	ASTM C836	PACTOProof HLM 600
Material	Shall cure and maintain seal against water	Pass
Stability @ 26.7°C	Shelf life 6 months	Pass
Weight Loss	20% max. loss, 80% solids min.	9 - 12 % loss 88 - 92% solids
Hardness Shore 00	50 minimum	58 – 64
Adhesion-in Peel after water immersion (Unprimed)	4.4 N	22.2 – 35.6 N
Low Temperature Flexibility and crack bridging	Ten cycles, -26°C (0-1/8", 1/8" -0=1 cycle)	Pass
Extensibility after heat aging	Membrane must bridge 6.4 mm crack	Pass



APPLICATION

Surface Preparation

Concrete surfaces must be float or shutter finished. The surfaces must be free of cavities and projections. Block work or brickwork must be flush pointed and of a uniform finish.

The surfaces should be made dry, clean and dust free to expose a sound, clean substrate.

Application

PACTOProof HLM 600 shall be roller or squeegee applied at a rate 1.63 liters per square meter) to provide a thickness of 60 mils. Blisters may form as a result of moisture vapor being emitted from the slab.

A flood test should be run in accordance with ASTM D 5927. The membrane should be cured to a firm rubber set (36 hour minimum) before flooding. Flood with a minimum of 1 in. (25mm) of water for 24 hours.

An approved protection course may be placed as soon as the membrane is a firm rubber

Protection

In certain conditions, particularly where back filling against **PACTOPProof HLM 600** is anticipated, protection board such as **PAC Board** (See separate Data Sheets).

PACKAGING AND YIELD

PACTOPProof HLM 600 is supplied in 20 liter drum. Coverage rates may vary depending on the substrate. As an average on a smooth surface, 1.63 m² per liter to get WFT 60 Mils (1.52 mm)

Limitations

- Not for use in submerged or gas vapor conditions.
- Do not apply to damp or contaminated surfaces.
- Not to be used as an exposed or wearing surface.
- Not approved for direct contact with asphalt-based products.
- Use with adequate ventilation.

STORAGE AND SHELF LIFE

PACTOPProof HLM 600 has a shelf life of 6 months when stored in original containers in cool, dry conditions.

HEALTH AND SAFETY

PACTOPProof HLM 600 avoid contact with skin and eyes, wear gloves and eye protection.

Refer to relevant MSDS for additional information.



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