

MONOLITHIC MEMBRANE 6125[®]



TECHNICAL DATA



1. Product Name

Monolithic membrane 6125[®].

2. Product Description

Basic Use

Monolithic Membrane 6125 (MM6125[®]) is designed for use as a waterproofing and roofing membrane, typically on concrete structures in vertical and horizontal applications such as roof decks, parking decks, reflecting pools, plazas, mechanical room sub-floors, foundation walls, mud slabs, tunnels, planters or Garden Roof[®]/green roof and LEED credit opportunities.

Limitations

- MM6125 is not intended as an exposed or traffic-bearing membrane.
- Do not install MM6125 over lightweight structural concrete without prior written approval from Hydrotech.
- Lightweight insulating concrete is not an acceptable substrate.
- For applications below -18°C, consult Hydrotech.

Description

The monolithic membrane 6125 is a hot applied rubberized asphalt, formulated from refined asphalts, synthetic rubber and mineral fillers mixed to produce a homogeneous substance having a VOC 0 g / l and a recycled material content of 40% (UL Recycled Content Claim Validation).

Containers / Weight / Coverage

MM6125 is packed in cardboard boxes of about 18 kg (40 lb). The weight of the installed membrane is about 6.8 kg / m² (1.5 lbs / ft²). Our system consists of installing a membrane layer to a thickness of 3 mm or more, a reinforcing fabric (Flex flash FH-16) embedded in the first layer followed by a second layer of membrane applied at a thickness of 3 mm.

The average thickness of the two layers should be 5mm without having a reading less than 4 mm.

Applicable Standards

Meets or exceeds the performance requirements of The Canadian General Standards Board, CGSB-37.50-M89 and applicable ASTM Test Methods.

PHYSICAL PROPERTIES

Properties	Test Method	Requirements
Flash point	ASTM D-92	260°C*
Cone penetration	ASTM D-5329	Maximum 110 at 25°C, maximum 200 at 50°C
Flow (60°C)	ASTM D-5329	3.0 mm max.
Toughness / Ratio of toughness to peak load		5.5 joules min./ 0.04 minimum
Water vapour permeance	ASTM E-96 Procedure E	1.7 ng/pa.s m ² maximum
Water absorption		Lost in mass Max : 0.18 g , gain in mass Max : 0.35 g
Water resistance (5 days / 50°C)		No signs of delamination, blistering, emulsifying, deterioration
Low temperature flexibility (-25°C)		No cracking of material permitted
Crack bridging capability (-25°C)		No cracking, splitting or loss of adhesion.
Heat stability		After 5 h @ 196°C, product must pass the CGSB 37.50M specifications for the two penetrations, the flow, the low temp. flexibility and the viscosity.
Viscosity		2-15 seconds
Softening point	ASTM D36	82°C
Solid content		100 % - without solvent
Resistance to acids (sulfuric, chlorhydric, solution 10%)	ASTM D-896-84 Procedure 7.1 Note 8	Good – Excellent
Minimum ambient temperature for application		-18°C
Specific Gravity		1.15

* Or not less than 25 ° C above the temperature of maximum recommended application (CGSB 37-GP-50M).

3. Technical Data

Typical physical properties of Monolithic Membrane 6125® are shown in Table 1 (on first page).

3. Installation

Surface Preparation

- Concrete deck should have a wood float or better finish to ensure proper adhesion.
- Block off honeycombs, voids and superficial cracks using a latex based caulk compatible with the membrane.
- Ensure concrete has cured at least 14 days prior to applying primer.
- Grind sharp edges at joints and changes in direction and/or remove loose stones; joints must be completely free of preformed compounds, sealant or joint fillers, to a depth equal to twice the joint width. For expansion joints, it is preferable that joint edges be chamfered.
- Prior to any roofing work, clean decks of any contaminant that could damage adhesion of membrane materials; remove all traces of curing products, dust, paint, frost, form release agents and loose particles.

Priming

Apply primer when deck is dry, according to CAN/CGSB-37.51, at a rate of 1 l per 4 to 6 m².

Application

Heat the membrane in a double jacketed, oil bath melter with a maximum flash point of 315°C, or an air jacketed melter. All melters shall be equipped with thermometers and direct drive mechanical agitation. It is forbidden to heat the bitumen in a direct heat melter. Heat membrane until membrane can be drawn-free flowing at a temperature range between 180°C and 190°C, and not exceeding this maximum temperature.

Crack and construction joint reinforcing (1.5 mm to 6 mm wide): apply a 300 mm wide, 3 mm thick coat of hot rubberized asphalt membrane and a strip of 150 mm wide uncured neoprene flashing sheet centred on crack or joint and embedded into the membrane; overlap joints in sheet flashing a minimum of 150 mm and seal laps with hot rubberized asphalt membrane. Avoid any wrinkles or fish mouths. If required, an edge restraint fastening bar shall be used to maintain the elastomeric sheet in its vertical position.

Apply a second 3 mm thick coat of bitumen on the reinforcing sheet to ensure it is perfectly embedded into the membrane.

Average thickness of the two coats must be 5 mm, with no readings less than 4 mm.

If a leak test is to be conducted, it may be carried out electronically or by flood testing. For flood testing, submerge the membrane in a minimum depth of 2" of ponding water for 48 hours after the membrane and protection layer are installed.

Complete MM6125 specifications and guideline details are available upon request.

Precautions

Use in well ventilated area. In areas with limited ventilation, wear a positive pressure air supplied NIOSH/MSMA approved respirator. Avoid skin and eye contact. User must read container label and Material Safety Data Sheets for health and safety precautions prior to use.

5. Availability and Costs

Availability

Through sales representatives of Hydrotech Membranes Corp.

Costs

MM6125 is competitively priced. Contact your local Hydrotech Membrane Corp representative or Hydrotech directly at:

Hydrotech Membrane Corp.
10951 Parkway
Anjou, QC H1J 1S1
Tel : 514-353-6000
Fax: 514-354-6649
Toll free: 1-800-361-8924

6. Guarantees

Contact Hydrotech Membranes Corp. for specific warranty information.

7. Maintenance

None required. Damaged Monolithic Membrane 6125 is easily repaired by removal of the damaged material and coating with new Monolithic Membrane 6125.

Technical Service

Technical support is provided by a trained network of sales representatives and a Technical Services Department.



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