

MONOLITHIC MEMBRANE 6125[®]



Tech 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 or planters.

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 0°C, consult Hydrotech.

Composition and Materials

MM6125 is a hot-applied rubberized asphalt specially formulated from refined asphalts, synthetic rubber and inert clay filler.

Container/Weight/Coverage

MM6125 is packaged in metal 55 gallon

drums weighing approximately 500 lbs. Each drum contains 8-10 cakes of membrane (approximately 50 lbs. each) which are double wrapped in low density polyethylene. The weight of the installed membrane is approximately 1.17 pounds per square foot for the standard

assembly. For the fabric reinforced assembly the weight of the installed membrane is approximately 1.4 pounds per square foot.

MM6125 is typically applied as a single coat (standard assembly) at a thickness of 180 mils, minimum 125 mils.

PHYSICAL PROPERTIES

Property	Requirement	Test Method
Flash Point	500° F (260° C)*	ASTM D-92, CGSB 37-GP-50M
Low Temperature Crack Bridging Capability	No cracking, adhesion loss, or splitting	CGSB 37-GP-50M
Water Vapor Permeability	1.7 ng/Pa(s)m max (0.027 perm)	ASTM E-96, Procedure E
Water Resistance (5 days/50° C)	No delamination, blistering, emulsification, or deterioration	CGSB 37-GP-50M
Water Absorption	Gain in weight 0.35 g max Loss in weight 0.18 g max	CGSB 37-GP-50M
Elasticity/Ratio of Toughness to Peak Load	Min. toughness of 5.5 joules (48.67 in pound)/.04 (1.50)	CGSB 37-GP-50M
Viscosity	2-15 seconds	CGSB 37-GP-50M
Heat Stability	No change in viscosity, penetration, flow or low temperature flexibility	CGSB 37-GP-50M
Low Temperature Flexibility (-25° C)	No delamination, adhesion loss, or cracking	CGSB 37-GP-50M
Penetration	@ 77°F (25°C) max 110 @ 122°F (50°C) max 200	ASTM D-1191 CGSB 37-GP-50M
Flow	@ 140°F (60°C) 3.0mm-max	ASTM D-1191 CGSB 37-GP-50M
Softening Point	180°F (82°C)	ASTM D-36
Elongation	1000% min	ASTM D-1191
Resiliency	40% min	ASTM D-3407
Bond to Concrete (0°F, -18°C)	Pass	ASTM D-3408
Acid Resistance	Pass – Nitric Acid Pass – Sulfuric Acid	ASTM D-896-84 Procedure 7.1 Note 8
Solids Content	100% – no solvents	
Shelf Life	10 years (sealed containers)	
Specific Gravity	1.25	

* or alternatively not less than 77°F (25°C) above the manufacturer's maximum recommended application temperature.

MM6125® can also be installed as a fabric reinforced assembly for waterproofing/roofing applications and is required for the following conditions:

- Over extremely rough substrates
- Retrofit applications
- Over wood plank and plywood substrates
- Over gypsum board secured to metal deck substrates
- Over concrete block units
- Or, as otherwise directed by Hydrotech

This type of installation consists of a coat of membrane at a minimum thickness of 90 mils, a reinforcing fabric (Flex Flash F) embedded into it followed by a second coat of membrane applied at a minimum thickness of 125 mils.

Applicable Standards

Meets or exceeds the performance requirements of The Canadian General Standards Board, CGSB-37.50-H89 and applicable ASTM Test Methods.

3. Technical Data

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

4. Installation

Surface Preparation

All concrete surfaces must be clean, dry, free of voids, projections, loose material, laitance, dust, oil, unapproved curing compounds or other contaminants.

Hydrotech recommends structural weight concrete to cure/dry 28 days, minimum 14 days, prior to the application of the membrane. Concrete must have a wood-float or wood troweled finish. All exposed metal shall be free of paint, oil, rust and contaminants.

Priming

Hydrotech's Surface Conditioner should be spray or roller applied to concrete at

a rate of approximately 300 to 600 square feet per gallon. Allow surface conditioner to dry thoroughly before membrane is to be applied. Other substrates such as wood and metal do not need to be primed.

Application

Use a double-jacketed, oil-bath or air jacketed melter with mechanical agitation specifically designed for preparation of hot-applied, rubberized asphalt materials. Melter must be capable of maintaining the membrane temperature between 350°F and 400°F (177°C-204°C). Construction joints, control joints and all cracks greater than 1/16" shall be treated with a 125 mil coat of MM6125. All flashing and detail work should be completed prior to the application of the membrane.

MM6125 may be squeegee applied on to horizontal surfaces and hand troweled or roller applied on to vertical surfaces.

For the standard assembly MM6125 should be applied at 180 mils (³/₁₆", 4.8mm), minimum 125 mils (¹/₈", 3.2mm) in a continuous, monolithic coating.

For the fabric reinforced assembly MM6125 is initially applied to the substrate at a minimum thickness of 90 mils. The fabric reinforcing (Flex Flash F) is embedded into the membrane while it is still warm and tacky. A second coat of MM6125 is then applied at a minimum thickness of 125 mils, fully encapsulating the fabric reinforcing within the membrane.

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 American Hydrotech, Inc. Sales Representatives worldwide.

Costs

MM6125 is competitively priced. Contact your local American Hydrotech Inc. representative or Hydrotech directly at:

American Hydrotech, Inc.
303 East Ohio Street
Chicago, IL 60611-3387
Phone 312.337.4998
Fax 312.661.0731

6. Guarantees

Contact American Hydrotech, Inc. 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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