MONOLITHIC MEMBRANE 6125°/ MONOLITHIC MEMBRANE 6125°EV





1. Product Name

Monolithic Membrane 6125® and Monolithic Membrane 6125®EV (environmental grade).

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. MM6125 is available in an environmental grade, MM6125®EV, for Garden Roof®/green roof and LEED credit opportunities.

Limitations

- MM6125/MM6125EV is not intended as an exposed or traffic-bearing membrane.
- Do not install MM6125/MM6125EV 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

MM6.125EV is a hot-applied rubberized asphalt specially formulated from refined asphalts, synthetic rubber and inert clay filler. MM6.125EV can be formulated with up to 25% post-consumer recycled content.

Container/Weight/Coverage

MM6125/MM6125EV is packaged in cardboard cartons, with a single 40 lb. cake of membrane per carton. The

membrane is also available 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

PHYSICAL PROPERTIES		
Property	Requirement	Test Method
Flash Point	500° F (240° C)*	CGSB 37.50-M89,
	<500° F (260° C)*, MM6125EV	ASTM D-92
Low Temperature Crack Bridging Capability	No cracking, adhesion loss, or splitting	CGSB 37.50-M89
Water Vapor Permeability	1.7 ng/Pa(s)m max	CGSB 37.50-M89
,	(0.027 perm)	ASTM E-96, Procedure E
Water Resistance	No delamination, blistering,	CGSB 37.50-M89
(5 days/50° C)	emulsification, or deterioration	
Water Absorption	Gain in weight 0.35 g max	CGSB 37.50-M89
	Loss in weight 0.18 g max	
Elasticity/Ratio of Toughness to Peak Load	Min. toughness of 5.5 joules	CGSB 37.50-M89
	(48.67 in pound)/.04 (1.50) 2-15 seconds	CCCD 27 50 M00
Viscosity		CGSB 37.50-M89 CGSB 37.50-M89
Heat Stability	No change in viscosity,	CG3B 37.3U-M89
	penetration, flow or	
I. T. T	low temperature flexibility	CCCD 27 FO MOO
Low Temperature	No delamination, adhesion	CGSB 37.50-M89
Flexibility (-25° C)	loss, or cracking	CCCD 27 50 M00
renetration	@ 77°F (25°C) max 110 @ 122°F (50°C) max 200	CGSB 37.50-M89
Flow	@ 140°F (60°C) 3.0mm-max	ASTM D-1191 CGSB 37.50-M89
FIOW	@ 140 F (60 C) 3.0mm-max	ASTM D-1191
Softening Point	180°F (82°C)	ASTM D-36
Elongation	1000% min	ASTM D-1191
Resiliency	40% min	ASTM D-3407
Bond to Concrete	Pass	ASTM D-3408
(0°F, -18°C)	i uss	A31M D 3400
Hydrostatic Pressure	100 psi	ASTM D-08.22,
Resistance	(=231 foot head of water)	Draft 2
Acid Resistance	Pass - Nitric Acid	ASTM D-896-84
	Pass – Sulfuric Acid	Procedure 7.1
		Note 8
Salt Water Resistance	No delamination, blistering,	ASTM D-896 similar
(20% sodium carbonate	emulsification, or deterioration	
and calcium chloride)		
Fertilizer Resistance	No delamination, blistering,	ASTM D-896 similar
(undiluted 15/5/5 nitrogen	emulsification, or deterioration	
/phosphorus/potash)		
Animal Waste Resistance	No deterioration	3 year exposure
Solids Content	100% – no solvents	
Shelf Life	10 years (sealed containers)	
Specific Gravity	1.25	
	°F (25°C) above the manufacturer's r	maximum recommended

 $^{^{\}ast}$ or alternatively not less than 77°F (25°C) above the manufacturer's maximum recommended application temperature.

density polyethylene.

The weight of the installed membrane is approximately 1.17 pounds per square foot for the 180 mils thick standard assembly. For the fabric reinforced assembly the weight of the installed membrane is approximately 1.4 pounds per square foot.

The fabric reinforced assembly for waterproofing/roofing applications 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-M89 and applicable ASTM Test Methods.

3. Technical Data

Typical physical properties of Monolithic Membrane 6125® and Monolithic Membrane 6125®EV 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 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[®]/MM6125[®]EV. All flashing and detail work should be completed prior to the application of the membrane. MM6125/MM6125EV may be squeegee applied on to horizontal surfaces and hand troweled or roller applied on to vertical surfaces.

For the standard assembly MM6125/MM6125EV 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/MM6125EV 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/MM6125EV 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/MM6125EV 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/MM6125EV 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 6125/6125EV is easily repaired by removal of the damaged material and coating with new Monolithic Membrane 6125/6125EV.

Technical Service

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



American Hydrotech, Inc.

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