

PRODUCT DATA SHEET

Hydrotech® Monolithic Membrane 6125®

Monolithic hot-applied rubberized asphalt

PRODUCT DESCRIPTION

Hydrotech® Monolithic Membrane 6125® (MM6125®) is a hot-applied rubberized asphalt for use in protective membrane roofing / waterproofing. Hydrotech® Monolithic Membrane 6125® is a thick, tough, flexible membrane.

USES

- Used on horizontal and vertical waterproofing applications including roof decks, parking decks, reflecting pools, plazas, mechanical room sub-floors, foundation walls, tunnels, and planters.
- Suitable for application over concrete, steel, wood, and other approved substrates.

CHARACTERISTICS / ADVANTAGES

- Ideal for a Protected Membrane Roof (PMR) Assembly
- Conforms to surface irregularities and strongly adheres to acceptable substrates, eliminating lateral water migration
- Monolithic; no seams, homogeneous mixture of refined asphalts and synthetic rubber
- Provides enhanced crack-bridging performance
- Ideal for dead-level installations; no slope required
- Performs in wet or submerged environments
- Can be applied to a clean, sound, dry, snow- and frost-free substrate, and at temperatures as low as 0°F (-18°C).
- 40% post-consumer recycled content

APPROVALS / STANDARDS

- Meets or exceeds CAN/CGSB 37.50-M89
- Factory Mutual Approved
- Miami-Dade County Approved
- Florida Building Code
- City of Los Angeles Approved

PRODUCT INFORMATION

Chemical Base	Rubberized asphalt
Packaging	39.5 lbs (17.9 kg) box
Shelf Life	10 years
Storage Conditions	The product must be stored in its original undamaged packaging. Place in cool, well ventilated area. Protected from extreme weather.
Area Density	1.4 lb/ft ² (6.8 kg/m ²) @ 215 mils, 1.17 lb/ft ² (5.7 kg/m ²) @ 180 mils
Flash Point	500 °F (260 °C)
Solid Content	100%
Viscosity	11 seconds (CGSB-37.50-M89)
Specific gravity	1.15

TECHNICAL INFORMATION

Test Results	Resiliency	≥40%	(ASTM D-5329)
	Bond to Concrete	Pass at 0°F (-18°C)	(ASTM D-5329)
	Heat Stability	Pass <i>No change in viscosity, penetration, flow or low temperature flexibility</i>	(CGSB-37.50-M89)
	Penetration	98 mm @ 77 °F (25°C) 187mm @ 122 °F (50°C)	(ASTM D-5329) (CGSB-37.50-M89)
	Resistance to Hydrotatic Pressure	100 psi (231 ft. hd. H ₂ O)	(ASTM D-08.22, Draft 2 (Developed: D5385))
	Toughness	16 Joules	(CGSB-37.50-M89)
	Ratio of Toughness to Peak Load	0.069	(CGSB-37.50-M89)
	Acid Resistance 50% Nitric Acid / 50% Sulfuric Acid	Pass	(ASTM D-896 Procedure 7.1 (N-8))

	Resistance to Salt water <i>20% sodium carbonate and calcium chloride</i>	Pass	(ASTM D-896 similar)
	Resistance to Fertilizer <i>undiluted 15/5/5 nitrogen/phosphorus/potash</i>	Pass	(ASTM D-896 similar)
	Resistance to Animal Waste <i>Animal waste</i>	Pass	(3 Year Exposure)
Elongation	≥1000%		(ASTM D-5329)
Crack Bridging Ability	No cracking, adhesion loss or splitting at -13 °F (-25 °C)		(CGSB-37.50-M89)
Low Temperature Bend	No delamination, adhesion loss or cracking at -13 °F (-25 °C)		(CGSB-37.50-M89)
Water Absorption	0.11 gram weight gain		(CGSB-37.50-M89)
Softening point	180 °F (82 °C)		

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

AVAILABILITY/WARRANTY

AVAILABILITY

From Sika Corporation – Authorized Applicators for use within Hydrotech systems.

WARRANTY

Upon successful completion of the installed roof by the Sika Authorized Applicator in compliance with Sika requirements, Sika Corporation will provide a warranty to the Building Owner via the Sika Authorized Applicator.

LIMITATIONS

- Hydrotech® Monolithic Membrane 6125® is not intended as an exposed membrane.
- Lightweight insulation concrete is NOT an acceptable substrate.
- For applications below 0° F (-18° C) consult Sika-Hydrotech.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using

any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

EQUIPMENT

Hydrotech® Monolithic Membrane 6125® must be heated using a double-walled, indirectly heated melter-mixer. The melter must be equipped with thermometers and a direct-drive mechanical stirrer. Heating bitumen in a directly heated kettle is strictly prohibited. The membrane temperature in the melter must be between 350 °F (176 °C minimum) and 375 °F (190 °C maximum). Take care not to exceed the maximum temperature.

SUBSTRATE PREPARATION

Concrete Substrates

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 with a minimum 14 days, and structural lightweight concrete to cure/dry 60 days with a 28 day minimum, prior to the application of the membrane. Concrete must have light-broom (CSP#3-#5) finish. All exposed metal shall be free of paint, oil, rust and contaminants.

Priming (Surface Conditioner)

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

Construction joints, control joints and all cracks greater than 1/16" shall be treated with a 125 mil coat of Hydrotech® Monolithic Membrane 6125®

All flashing and detail work should be completed prior to the application of the membrane. Hydrotech® Monolithic Membrane 6125® may be Flat blade squeegee applied on to horizontal surfaces and hand troweled or roller applied on to vertical surfaces.

For the standard assembly Hydrotech® Monolithic Membrane 6125® should be applied at 180 mils (3/16", 4.8mm), minimum 125 mils (1/8", 3.2mm) in a continuous, monolithic coating, followed by appropriate protection layer.

For the fabric reinforced assembly Hydrotech® Monolithic Membrane 6125® is initially applied to the substrate at a minimum thickness of 90 mils (3/32", 2.3mm). The fabric reinforcing (Flex Flash F) is embedded into the membrane while it is still warm and tacky. A second coat of Hydrotech® Monolithic Membrane 6125® is then applied at a minimum thickness of 125 mils (1/8", 3.2mm), fully encapsulating the fabric, followed by appropriate protection layer.

Please consult Sika-Hydrotech's Installation guide for detailed installation procedures

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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