Blome Membrane 68
High Temperature Asphalt Membrane

PRODUCT DESCRIPTION

Blome Membrane 68 is a single component, high temperature asphalt membrane. Membrane 68 cures to form a flexible and impermeable membrane that is used behind acid brick and gunite linings. These membrane/brick and membrane/monolithic systems are used for the installation of chemical resistant tank linings, floors, pads, trenches, sumps, stacks and ductwork. Membrane 68 is resistant to most mineral acids including dilute sulfuric, hydrochloric and phosphoric, as well as caustic solutions. The material exhibits excellent bond strength to properly prepared concrete and steel substrates. Blome Membrane 68 remains flexible over a temperature range of –60 to 330F and is suitable for temperature excursions up to 350F and above some in dry service applications.

TYPICAL USES

Blome Membrane 68 High Temperature Asphalt Membrane is suitable for use in a variety of applications including:

Acid Brick Tank Linings
Acid Proof Gunite Linings
External Membrane for Precast Trenches

HANDLING CHARACTERISTICS

Blome Membrane 68 is supplied in a mastic consistency, and is best applied by roller, brush or spray. A minimum 45:1 airless spray rig is recommended for spray application of Membrane 68. Typical spray application is 125 mils wet film thickness, applied in two (2) coats, 60 mils each. The coats should be spray applied in overlapping, cross directional passes. The second coat should be applied two (2) hours after the first coat. Blome Membrane 68 also has ideal handling properties and is smooth spreading for easy application by steel trowel. Typical trowel application is 125 mils (1/8”), applied in two passes to horizontal and vertical substrates.

TYPICAL PROPERTIES
WET

Components	One (1)
Wet density	8.4 lbs. per gallon
Consistency	Mastic
Initial set	50°F 24 - 36 hours
	77°F 18 – 24 hours
Final cure	50°F 7 days minimum
	77°F 5 days minimum

CURED

Color	black
Perm Rate (ASTM C96 Method E)	0.003 (perm-inch)
Resistance to abrasion	excellent
Solids Content	68%

PACKAGING, ESTIMATING & STORAGE

Blome Membrane 68 is supplied as a single component product, a mastic liquid material. Membrane 68 is packaged as follows:

Unit Sizes	Coverage
5 gallon pails	13 ft^2/gallon @ 1/8" wft
55 gallon drums	

Shelf life for Membrane 68 is twelve (12) months. Keep Membrane 68 components tightly sealed in original containers until ready for use. Store components in a cool, dry place, out of direct sunlight, on pallets at temperatures between 50°F – 80°F. Protect Membrane 68 from water and weather while in storage and on job site.

BID SPECIFICATION GUIDE

Use Blome 68 High Temperature Asphalt Membrane as manufactured by Blome International, O'Fallon, MO.

JOB SITE ENVIRONMENTAL CONDITIONS

Weather conditions, especially dew point, should be constantly monitored. Final blast cleaning and application of membrane system must only be performed when the temperature of steel substrates will not fall within 5°F of the dew point. Dehumidification and/or temperature control may be necessary to meet this requirement. Use a surface thermometer to frequently monitor the temperature of steel substrates during membrane installation.

Blome Membrane 68 is best applied while ambient temperatures are between 60°F and 90°F. Blome Membrane 68 components and substrate temperatures must also be maintained in this range and at least 5 degrees above the dew point. For best results, store Membrane 68 components at 75°F minimum, for 24 – 36 hours prior to installation. Avoid installing Membrane 68 in direct sunlight. Installations of Membrane 68 should be protected from water and weather during installation and curing.

SURFACE PREPARATION

Concrete substrates to which Blome Membrane 68 will be applied must have a minimum 28 day cure or have a minimum compressive strength of 3,000 psi. Minimum tensile strength of concrete must be 300 psi when tested using a Schmidt Hammer. Concrete must be dry in accordance with ASTM D 4263 Plastic Sheet Test Method. Concrete surfaces must be free of all laitance, oil, curing compounds and any dust or other loose materials prior to installation of Membrane 68.

Steel substrates should be prepared by abrasive blasting to achieve near white metal clean SSPC 10. Blasted steel substrates must not be allowed to flash rust prior to installing membrane. Therefore, this surface preparation must be completed immediately prior to installation of Membrane 68. For application to blasted steel, Membrane 68 is self priming.

SAFETY PRECAUTIONS

Blome Membrane 68 presents various health hazards if handled improperly. Membrane 68 is flammable, will cause eye injury and irritate skin. Wear respirator suitable for organic vapors, safety glasses with side shields, gloves and long sleeve shirts to prevent all contact with skin and eyes. After working with Blome Membrane 68, wash thoroughly before eating, drinking, smoking or other activities.

APPLICATION EQUIPMENT

Blome Membrane 68 is best remixed prior to use with a drill motor driven paddle blade or "Jiffy" mixer. All mixing and application equipment must be clean, dry and free of any contaminants including Portland cement, other mortars or resins. When mixed, Membrane 68 is sprayed using a minimum 45:1 airless spray rig equipped as listed below. Membrane 68 is trowel applied using a clean, dry, steel finishing trowel.

Spray rig set-up for Blome Membrane 68:

Mastic Pump – Graco 45:1 or larger Airless, use inductor plate for pails & drums
Air Regulator – 207-651 air regulator
Mastic Gun – Graco Silver Airless Gun
Gun Tip – Graco Reverse-A-Clean Tip; 0.045 inch orifice + GHD Tip
Material Hose to Gun – 6 feet whip end, ½" i.d., working pressure 5,000 psi, burst 16,000 psi
Material Hose – 50 feet overall, ¾" i.d., working pressure 4,000 psi, burst 12,000 psi
Material Hose – 100 or 150 feet overall, 1" i.d., working pressure 3,000 psi, burst 12,000 psi
Air Compressor – 100 cfm @ 100 psi minimum.
Air Hose from Compressor to Mastic Pump – ¾" to 1" i.d. 100 feet long.
Note: The foot valve of the pump must be immersed in the product. This material will not siphon.

MIXING AND APPLICATION

Thoroughly remix Membrane 68 with a drill motor driven paddle blade or "Jiffy" mixer and blend thoroughly for 1-2 minutes prior to application. Typical spray application is 125 mils wet film thickness, applied in two (2) coats, 60 mils each. The coats should be spray applied in overlapping, cross directional passes. The second coat should be applied two (2) hours after the first coat. Blome Membrane 68 also has ideal handling properties and is smooth spreading for easy application by steel trowel. Typical trowel application is 125 mils (1/8"), applied in two passes to horizontal and vertical substrates. This two-pass installation will help to shear any air bubbles trapped within the paste membrane material.

CLEANUP

All tools, mixing equipment, gloves and application equipment should be cleaned up immediately using a citrus or biodegradable cleanser, with hot water, while material is still wet. If material begins to cure, solvent-based cleaners will be required for removal.

WARRANTY

We warrant that our goods will conform to the description contained in the order and that we have good title to all goods sold. Our material data sheets and other literature are to be considered accurate and reliable, but are used as guides only. WE GIVE NO WARRANTY OR GUARANTEE, WHETHER OF MERCHANT ABILITY OR FITNESS OF PURPOSE OR OTHERWISE, AND WE ASSUME NO LIABILITY IN CONNECTION THEREWITH. We are happy to give suggestions for applications; however, the user assumes all risks and liabilities in connection therewith regardless of any suggestion, we may give. We assume no liability for consequential or incidental damages. Our liability, in law and equity, shall be expressly limited to the replacement of non-conforming goods at our factory, or at our sole option, to repayment of the purchase price of the non-conforming goods.

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Supersedes all previous literature