



# VIMASCO CORPORATION

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**749**  
**VAPOR-BLOK™**

## VAPOR-BARRIER COATING

749 Vapor-Blok™ Mastic is a premium quality water-based vapor-barrier coating which effectively prevents water vapor from passing through it. It is designed to prevent the intrusion of water vapor into thermal insulation when applied on surfaces which are colder than ambient temperature. It is compatible with virtually all types of thermal insulation and can also be applied to a variety of other types of substrates as needed. It is a safe, easy-to-apply water-based latex emulsion, but it achieves the type of low perm rating normally associated with solvent-based products.

749 Vapor-Blok™ has a smooth, creamy consistency most suitable for application by brush (it can also be sprayed with the proper spray equipment). For applications where a heavy build is desired, a heavy-brush/trowel grade is available (method of application should be specified when ordering). It has a pure white color, which remains white in service and matches most white jacketings and facings. It is excellent for protecting the insulation on cold air ducts, chilled water lines, cold storage equipment, and other similar cold systems.

749 Vapor-Blok™ is a very low-odor, low VOC coating when compared to other coatings of this type, and thus it is preferable to workers on the job site and also when being applied in inhabited spaces. It achieves its low perm rating at only 30 mils dry film (30 sq ft/gal), therefore jobs can be completed using less material than with competitive products.

749 Vapor-Blok™ is very effective vapor-barrier coating and should not be used where a breathing coating is required. Always make sure insulation being coated is dry.

749 Vapor-Blok™ meets the 25/50 flame and smoke requirements of NFPA 90A.

749 Vapor-Blok™ **MUST BE PROTECTED FROM FREEZING IN SHIPMENT AND STORAGE.** After application it must be protected from freezing and moisture until thoroughly cured.

**Note:** 749 Vapor-Blok™ may be used outdoors but after a considerable amount of exposure to ultra-violet light, the white version may dull slightly to an off-white. It should not be applied to a flat horizontal surface where it will be subjected to standing water.

### COLOR

White, Gray

### WATER VAPOR PERMEANCE (ASTM F 1249)

.03 to .05 U.S. Perms at 30 mils dry film  
(.02 to .03 Metric Perms at .76 mm dry)  
.015 to .03 U.S. Perms at 38 mils dry film  
(.01 to .02 Metric Perms at .97 mm dry)  
Each batch is tested for conformance

### COVERAGE (ASTM C 461)

30 sq ft/gal at 30 mils dry (52 mils wet)  
(.74 m<sup>2</sup>/liter at .76 mm dry, 1.32 mm wet)  
24.5 sq ft/gal at 38 mils dry (66 mils wet)  
(.60 m<sup>2</sup>/liter at .97 mm dry, 1.68 mm wet)

### DRYING TIME (ASTM D 1640)

To touch: 2 hours

Through: 12 to 48 hours

Depending upon temperature, relative humidity, and substrate

### WEIGHT PER U.S. GALLON (ASTM D 1475)

10.4 pounds (1.24 kg/liter)

### SOLIDS

67% by weight, 58% by volume

### SERVICE TEMPERATURE RANGE

0°F (-17.8°C) to 180°F (82.2°C) constant  
-20°F (-29°C) to 220°F (104°C) intermittent

**Note:** "Service temperature" refers only to the temperature of air or surfaces coming into direct contact with the coating. This should not be confused with the operating temperature of the system underneath the insulation, which may vary widely depending upon the effectiveness of the insulation used. 749 Vapor-Blok™ will lose some flexibility at very cold temperatures and will soften at very warm temperatures.

### APPLICATION TEMPERATURE RANGE

40°F (4°C) to 120°F (49°C)

### WET FLAMMABILITY (ASTM D 93)

No flash to boiling, 212°F (100°C)

### VOLATILE ORGANIC COMPOUND (VOC) CONTENT (ASTM D 3960)

.38 lb/gal (46 g/l)

### ELONGATION

107% (30 mils dry @ 70°F)  
(.76 mm dry @ 21°C)

### CLEANUP

Wet state: water

Dry state: safety solvent

### RECOMMENDED SHELF LIFE

12 months in unopened container at 40°F(4°C) to 90°F (32°C)

### CAUTION

The addition of water to this product will change its physical properties and will adversely affect its performance. No expressed or implied warranty will be offered on applications where the product has been thinned or altered in any way.

**COMPLIES WITH:** MIL-C-19565C, Type II (QPL Listed)

### SURFACE BURNING CHARACTERISTICS

(ASTM E 84)

Flame Spread: 3.7

Smoke Developed: 9.2

In accordance with OSHA Standard 29 CFR 1910.12 (Right to Know Law) a Material Safety Data Sheet is available for this product and all Vimasco products.

**ALL VIMASCO PRODUCTS ARE ASBESTOS FREE AND CONTAIN NO LEAD OR MERCURY COMPOUNDS.**

Vimasco products are designed to meet the needs of specific situations. They are warranted to be effective for their intended uses only. No further warranties are expressed or implied. The methods and condition of applications over which we can exercise no control are important factors in the performance of our products. We make specific recommendations for the application and use of all Vimasco products, but we cannot enforce our recommendations upon users; therefore it is necessary that we state, as a condition of sale of our products, that we will replace or refund the purchase price of any Vimasco products found by our laboratories to be defective but that we assume no responsibility beyond the purchase price of the materials.