



Stars Management DMCC

SUBMITTAL

749

**VAPOR BARRIER
COATING**



VAPOR-BARRIER COATING

749 Vapor-Blok™ is a premium quality water-based vapor-barrier coating which effectively prevents water vapor from passing through it. It is designed to prevent the passage of water vapor into thermal insulation on cold systems or surfaces colder than ambient temperature. It is compatible with virtually all types of thermal insulation including Foamglas 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, and complies with MIL-C-19565C, Type II, and is QPL listed.

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 exposure to ultra-violet light the white color will dull slightly to an off-white. It should not be applied to a flat horizontal surface where it will be subjected to standing water.

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. No representative of our Company, Distributor or Agent has any authority to change or extend this condition of sale.

COLOR: White (Gray is available with minimum order requirements)

WATER VAPOR PERMEANCE (ASTM F 1249)

.03 to .05 U.S. Perms at 30 mils dry film
.015 to .03 U.S. Perms at 38 mils dry film
(.01 to .02 Metric Perms at .97 mm dry)

COVERAGE (ASTM C 461)

30 sq ft/gal at 30 mils dry (52 mils wet)
(.74 m²/liter at .76 mm dry, 1.32 mm wet)
24.5 sq ft/gal at 38 mils dry (66 mils 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)

39 g/L (.384 lb/gal)

MEETS REQUIREMENTS FOR LEED CREDIT 4.2

ELONGATION

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

CLEANUP: Wet state: water Dry state: safety solvent

CAUTION

Do not add water to this product as that will change its physical properties and performance. No expressed or implied warranty will be offered on applications where the product has been thinned or altered.

ASTM E2178 – Air Permeance of Building Materials

749 has been tested and complies

SURFACE BURNING CHARACTERISTICS

(ASTM E 84) Tested at Underwriters Laboratories, Inc.

Flame Spread: 3.7; Smoke Developed: 9.2



VIMASCO CORPORATION

S D S SAFETY DATA SHEET — 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier 727		February 11, 2015	
Product Use Laminating Adhesive, latex-based coating			
Manufacturer's Name Vimasco Corporation		Supplier's Name	
Street Address		Street Address	
City	State:	City	
Postal Code	Emergency Phone	Postal Code	Emergency Telephone
Prepared by:		Phone Number	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (<i>specific</i>)	%	CAS Number	LD ₅₀ of Ingredient (<i>specify species and route</i>)	LC ₅₀ of
Triaryl Phosphates, Isopropylated	10 – 15	115-96-8, 68937-41-1	Not Established	Not established
Vinyl Acetate	<0.3	108-05-4	10ppm (TWA-TLV)	

SECTION 3 — HAZARDS IDENTIFICATION

A TLV for this mixture has not been established. Therefore, the following effects of overexposure are those of the components listed in Section II

Triaryl Phosphates, Isopropylated: Can be irritating to skin, respiratory system, mucous membranes and eyes. Breathing or ingestion of large quantities can cause neurological disturbances which may progress to delayed neurotoxicity, characterized by ataxia.

Vinyl Acetate: (Note: residual vinyl acetate monomer is less than 0.1% .) Listed by IARC as a possible carcinogen.

Medical conditions Prone to Aggravation by Exposure: Persons with preexisting lung disorders may be more susceptible

Product Identifier – 727 , Vimasco Corporation

SECTION 4 — FIRST AID MEASURES

Primary Routes of Entry: Dermal Inhalation

Skin: Wash with soap and water

Eyes: Flush with clean water at least 15 minutes, if irritation persists, consult physician.

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If irritation persists, consult physician

Ingestion: Give two glasses of water, induce vomiting, consult physician or poison control center. Never give anything by mouth to an unconscious person.

SECTION 5 — FIRE FIGHTING MEASURES

Flammable No	If yes, under which conditions?	
Means of Extinction: Foam, Alcohol Foam, CO ₂ , Dry Chemical, Water Fog		
Flashpoint: No flash to boiling 212°F (TCC)	Upper Flammable Limit (% by volume)	Lower Flammable Limit (% by volume)
Autoignition Temperature (°C)	Explosion Data: None known	Explosion Data — Sensitivity to Static Discharge
Hazardous Combustion Products : None known		
Product will not burn until water has boiled or evaporated. For dried film or residual solids, full protective equipment is recommended, including self-contained breathing apparatus		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Spills should be collected for disposal. Prevent material from entering drains, sewers and waterways. Spills may be slippery. Before drying product may be washed away with water; after drying, remove with a paint scraper or strong solvent.

SECTION 7 — HANDLING AND STORAGE

Thoroughly cleanse hands after handling. Launder contaminated clothing before reuse.

Protect from freezing. Keep container closed. Use with adequate ventilation.

Do not use empty containers for potables or edibles.

Store indoors at temperatures of 40°F to 90°F

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SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure limits: Not available

In restricted ventilation areas, use approved chemical respirator, avoid inhalation of airborne particulates by using an approved respirator. General (mechanical) room ventilation is expected to be satisfactory. Supplementary local exhaust and respiratory protection may be needed in poorly ventilated spaces, or evaporation from large surfaces when spraying.

Personal Protection: Impervious gloves, goggles, face shield or other eyewear to protect from splash.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Mixture	Odor : Mild latex odor	Wt/Gal: 10 lbs.
Specific Gravity: 1.2	Vapor Density (air = 1): Lighter than air	Viscosity: 2,500 to 3,500 cps
Evaporation Rate: Slower than ether	Boiling Point : 212°F to 216°F	Freezing Point : 32°F (0°C)
pH 7.0 to 8.0	VOC (lbs/gal): 0.5 gm/L; 0.004lbs/gal (less water)	Volatile Volume: 42%

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability: Stable Avoid elevated temperatures.

Materials to avoid: Strong alkalis and the presence of iron or zinc will catalyze and deteriorate.

Thermal decomposition will yield CO, CO₂, H₂O, and traces of fragmented short-chain hydrocarbons, trace amounts of ammonia and formaldehyde and acidic vapor of phosphorous oxide.

Decomposition Temperature: 240°F (115°C)

SECTION 11 — TOXICOLOGICAL INFORMATION

Not available

SECTION 12 — ECOLOGICAL INFORMATION

Not available

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SECTION 13 — DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable regulations. Review hazard section of this sheet before attempting cleanup. Ventilate Area. Contain the liquid with inert materials such as sand. Absorb liquids using an inert material and shovel into containers. Before drying, product may be washed away with water; after drying remove with a paint scraper or strong solvent. Empty containers are non hazardous under RCRA as industrial waste.

SECTION 14 — TRANSPORT INFORMATION

Not regulated.

SECTION 15 — REGULATORY INFORMATION

None

SECTION 16 — OTHER INFORMATION

For industry/professional use only. Not intended for retail sale or use by individual consumers.

HMIS Hazard Rating

Health: 1 Flammability: 0 Physical Hazard: 0

NFPA

Health: 1 Flammability: 0 Reactivity: 0