



Stars Management DMCC

SUBMITTAL

760 NG

**NUCLEAR GRADE
HIGH TEMPERATURE
FIBROUS ADHESIVE**



VIMASCO CORPORATION

760 NG

NUCLEAR GRADE HIGH TEMPERATURE FIBROUS ADHESIVE

760 NG is a special version of our sodium silicate based fibrous adhesive which is designed for use in nuclear applications where it is important to minimize the risk of stress corrosion of carbon steel, stainless steels, Inconels, or other sensitive alloys. 760 NG contains only minimal levels of chlorides, fluorides, oxidizable sulfur and other leachable contaminants which are potential causes of this corrosion, and it complies in full with NRC Reg. Guide 1.36 and MIL-DTL-24244D(SH). 760 NG has been fully tested by an independent laboratory and each production batch is tested for compliance with the appropriate standard/specification (test reports are available upon request).

760 NG is intended for high temperature applications up to 800°F. It is most frequently used to bond calcium silicate insulation, but it can be used to bond any type of light to medium weight material of moderate density. It is not recommended for use with glass or mineral wool insulation without doing a test application first because its high pH may cause deterioration of some binders used in these types of insulations.

760 NG may be applied by brush or trowel (application method must be specified when ordering). For best results, both surfaces of the material involved should be coated with 760 NG and allowed to stand a minimum of two and a maximum of ten minutes prior to joining.

NOTE: 760 NG in the dry state is soluble in water and therefore is not suitable for outdoor application or application where it will be exposed to moisture unless it will be properly protected.

Vimasco manufactures under a stringent quality assurance program in accordance with MIL-I-45208. Our manufacturing and Quality Assurance procedures are routinely audited by government and private inspectors.

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.

or implied.

The methods and condition of application 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 product 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.

SPECIFICATION COMPLIANCE

MIL-DTL-24244D(SH)

NRC Reg. 1.36

COLOR

Tan

COVERAGE (ASTM C 461)

50 to 75 sq. ft./ gal.

(1.22 to 1.83 m²/liter)

DRYING TIME (D 1640-69)

Approximately 2 hours to 4 hrs.

(Depending upon temperature and relative humidity.)

WEIGHT PER U.S. GALLON (ASTM D 1475-60)

11.4 pounds (1.37 kg/liter)

SOLIDS

50% by weight; 23.9% by volume

APPLICATION TEMPERATURE RANGE

35°F (2°C) to 160°F (71°C)

SERVICE TEMPERATURE RANGE

Maximum 800°F (427°C)

pH

11 to 12

FIRE HAZARD CLASSIFICATION (ASTM E 84)

Flame Spread 5

Fuel Contributed 0

Smoke Developed 0

FLAMMABILITY

No flash to boiling @ 212°F (ASTM D 93)

CLEANUP

Water

SHELF LIFE

18 months

In unopened container @ 40° to 90°F

CAUTION

The addition of water to this product will change physical and chemical characteristics. Do not thin or alter in any manner. Protect from freezing during storage and application until it is thoroughly cured.

STIR WELL BEFORE USING.



VIMASCO CORPORATION

MATERIAL SAFETY DATA SHEET — 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier 760 NG		October 22, 2014	
Product Use High Temperature Insulation Adhesive			
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 Ingredient
Aqueous Solution of Alkaline Sodium Silicate	80 - 90	1344-09-8	Not established	Not established

SECTION 3 — HAZARDS IDENTIFICATION

Primary Routes of Entry: Dermal or inhalation

Eye: Can cause severe irritation if not treated. **Skin:** On continued contact, will cause severe irritation chronic local effect may consist of superficial destruction.

Ingestion: Irritation to mucous membranes.

Inhalation: Exposure to mists may cause coughing, sneezing, severe exposure may result in lung tissue damage.

Product Identifier - 760NG Adhesive, Vimasco Corporation

SECTION 4 — FIRST AID MEASURES

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, 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		
Special Firefighting Procedure: Protective clothing for skin and eye protection		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

For large spills, contain the liquid and shovel up material for removal by vacuum truck. Neutralize residue with dilute acid, flush area with water, followed by liberal covering of sodium bicarbonate. Small spills are readily washed away with water. High pH is harmful to aquatic life. **Spills will be very slippery.**

SECTION 7 — HANDLING AND STORAGE

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

Protect from freezing.

Do not use empty containers for potables or edibles.

Store indoors at temperatures of 40°F to 90°F. Do not store at elevated temperatures, as containers could pressurize and rupture

Spills may be slippery.

Do not store in aluminum containers, do not use aluminum transfer lines or fittings.

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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: Rubber gloves (gloves can be cleaned with mild soap and water), goggles, face shield or other eyewear to protect from splash. Discard footwear that cannot be cleaned.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Paste consistency	Odor: Faint odor	Wt/Gal: 10.4 lbs.
Specific Gravity: 1.44	Vapor Density (air = 1): Lighter than air	Viscosity: Approx. 80,000 cps
Evaporation Rate: Slower than ether	Boiling Point: 212°F to 216°F	Freezing Point: 30°F (1°C)
pH 10 - 11	VOC (lbs/gal): 0 gm/L; 0 lbs/gal (less water)	Volatile Volume: 56%

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability: Stable Decomposition Temperature: Approximately 800°F (427°C)

Avoid contact with acids or ammonium salts, this will cause gelling and evolution of heat. Prolonged contact with aluminum, tin, brass, copper, lead or zinc may product flammable hydrogen gas.

Thermal decomposition will yield hydrogen.

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. Spills may be slippery. 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. Dried product can produce very hard, sharp edges.

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: 1

NFPA

Health: 1 Flammability: 0 Instability: 1