



ACRYLIC ALUMINUM FILLED
ALUMASHIELD™
 LOW EMISSIVITY (LOW-E)
 INTERIOR RADIATION CONTROL COATING

PRODUCT
 DATA
 #7475
 #7475M
 1/11/13
superseding: 11/15/12

PRODUCT DESCRIPTION:

ALUMASHIELD™ is an aluminum filled, water-based, low emissivity (low-e) Interior Radiation Control Coating (liquid applied thermal barrier). **ALUMASHIELD™** is designed mostly for application to the underside of a building's roof, but can be applied to the interior sides of exterior walls. It will dramatically reduce the amount of radiant heat entering the structure. **ALUMASHIELD™** is a non-emitter of radiant heat because of the inert aluminum pigment. Aluminum properties block up to 82.2% of the radiant heat normally transferred through roofs into air space below. It helps stop radiant heat from escaping and also keeps heat inside during colder months. This results in a significant reduction in the cooling requirements of the building in warm weather, without sacrificing the building's ability to retain heat in cooler weather which will also decrease energy consumption. **ALUMASHIELD™** lowers the emissivity (heat that passes through) of the surface to which it is applied with an emissivity rating of .178 which exceeds the requirement for IRCC, and is categorized under ASTM standards as an IRCC, Interior Radiation Control Coating. **ALUMASHIELD™** will reduce the average utility bill and is an excellent low-cost substitute for metallic foils and metalized plastic film radiant barriers. **ALUMASHIELD™** has an unlimited life cycle and will last as long as the surface it is applied to.

PRODUCT USES:

ALUMASHIELD™ is designed for interior use only. **ALUMASHIELD™** is designed mainly for the underside of roofs, especially attic decks but can be used on the interior side of exterior walls also. There must be air space on one side of the **ALUMASHIELD™** to be effective. We recommend a minimum of 2 inches of air space. It can be applied to COX or OSB plywood, plywood, metal, concrete, plasterboard, siding panels, sub-floors, drywall, or most any building material. **ALUMASHIELD™** can be used for residential, commercial, institutional and industrial applications.

SURFACE PREPARATION:

Apply only to a clean, dust-free, completely dry, sound and well prepared surface.

Metal: Rusted metal and uncoated metal must be primed. **ALUMASHIELD-M™** metal formula must be used.

APPLICATION PROCEDURE:

Mix thoroughly for 2 to 3 minutes stirring by hand with a wooden paddle. Do not use a mechanical shaker. Product should be used as is. Do not tint, add water or any other additives.

ALUMASHIELD™ should be applied at temperatures between 40 and 120 degrees Fahrenheit.

Adequate ventilation must be present before, during and after application. If adequate ventilation is not present, use a form of mechanical ventilation 10 minutes before, during and 30 minutes after applying **ALUMASHIELD™**.

Apply using brush, roller or spray. Spraying is the preferred and most effective application method to maximize desired results. Where spraying is not practical, **ALUMASHIELD™** can be applied using a short nap roller cover.

Apply at 3-4 mils wet film thickness, resulting in .7 to .8 mil maximum dry film thickness. Applying too much product may result in decreased effectiveness.

Airless Sprayers: Use at least a ¾ gallon per minute piston type airless sprayer with a tip size of .013 to .015. Remove all line filters and gun filters before spraying.

CLEAN UP:

Clean up all spills, tools and overspray immediately while the coating is still wet with warm soapy water.

Specialty

Ambient Temperature of 77°F and RH of 50%

TECHNICAL SPECIFICATIONS:

Rates & Times May Vary Beyond Specifications

FINISH:	Satin	SPREAD RATE:	400 - 500 sq. ft. per gallon
COLOR:	Bright Silver Aluminum	DRY to TOUCH:	20 to 30 Minutes
VEHICLE TYPE:	Copolymer Emulsion	RECOAT:	1 Hour(not recommended)
SOLIDS by WEIGHT:	25% +/- 2%	CURE TIME:	1 to 2 Days
SOLIDS by VOLUME:	22% +/- 2%	SIZES:	1 Gal., 5 Gal., 55 Gal.
V.O.C.'s (averages):	0.35 lbs./gal. • 42 g/liter	GALLON WEIGHT:	8.9 lbs. +/- .3 lbs.

Information presented on this Data Sheet has been compiled from sources to be reliable, and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so.



MATERIALS HEALTH, SAFETY AND ENVIRONMENTAL DATA SHEET

**MSDS#:
7475**

Product Identification	Product Name: ALUMASHIELD™ Product Code #: 7475 General Usage: Interior Radiation Control Coating General Description: Pigmented Aluminum Latex Coating C.A.S. Number: None Established; Mixture	
Manufacturer Information	Manufacturer's Name: Nationwide Chemical Coating Mfrs., Inc. Address: 7106 24th Court East; Sarasota, FL 34243-3993 Emergency Telephone: 1-800-423-7264 or 941-753-7500 Information: 1-800-423-7264 or 941-753-7500 Web Site: www.nationwidecoatings.com E-Mail: info@natcoat.net Date Effective: January 1 st , 2011	
Chemical and Physical Properties	Color: Aluminum Metallic (Leafing) Physical State: Liquid Boiling Point: 212 Fahrenheit Specific Gravity (H ₂ O=1): >1 Vapor Presence: about same as H ₂ O Percent Volatile: 70-75% Evaporation Rate (Butyl Acetate=1): <1	Odor: Mild Odor Threshold: Unknown Melting Point: N/A Freezing Point: 32 Fahrenheit Solubility in H ₂ O: Soluble pH (undiluted): 8 to 8.5 Vapor Density (Air=1): <1
Fire Protection Information	Decomposition/Combustion: Flash Point: Recommended Extinguishing Media: Flammable Limits:	N/A N/A; Does Not Burn N/A N/A
Storage and Reactivity	Hazardous Polymerization: Storage Conditions: Toxic Products Which May Form:	Will Not Occur Keep from Freezing None
Transportation	Hazard Classes: Hazard Labels: Hazard Determination: Shipping Containers: Shipping Class:	None; Not Hazardous Not Required MSD Sheet Varies Class 55; Water Based Paint
Container Labeling	Explanation of Unique Labeling System:	None Used

Health Hazard Data	SHORT TERM EXPOSURE	
	Route of Entry: Inhalation: Skin: Eyes:	Precautionary Treatment Expected None Expected None Flush Immediately with large amounts of water for at least 15 minutes, holding eyelids open. Call a physician if irritation persists
	Ingestion:	Call a physician if significant amounts have been Swallowed. Give patient large amounts of water or milk for dilution.
	LONG TERM EXPOSURE	
	Carcinogen: Target Organ Effects: Other Health Hazards:	None None None Known
Personal Protection	Respiratory Protection: Protective Clothing: Ventilation: Other Protective Measures: Eye Protection:	No inhalation hazard expected None Required Local None Safety Glasses
Spill or Leak Protection	Accidental Release or Spill: Neutralizing Chemical/Media:	Collect liquid or solidify with absorbent package for disposal N/A
Treatability	Biodegradability: With water prior to cure. Influence on Biological Wastewater Treatment: None Other Impacts on Wastewater Treatment: None Recommended Wastewater Treatment: Dilutable Constituents Interfering With or Not Amenable to Biological or Wastewater Treatment: None	
Recommended Waste Disposal	Dispose of in accordance with Federal, State and Local guidelines.	