

# PERMALUME PREMIUM

*Fibred / Non Fibred Aluminium Roof Coating*

## Product Description

- ▶ PERMALUME PREMIUM is a superior grade, protective aluminum coating specially formulated for the protection of new and weathered DERBIGUM membranes. Every gallon of PERMALUME PREMIUM contains a full 3 lbs. of high-grade flaked aluminum for maximum reflectivity and longevity. When applied within published guidelines, the use of PERMALUME PREMIUM results in a UL classified, FM approved and Energy Star compliant DERBIGUM roof construction. PERMALUME PREMIUM meets or exceeds the performance requirements as set forth in ASTM 2824, Type I.

## Uses

- ▶ PERMALUME PREMIUM is specially designed to protect DERBIGUM roof membranes. It can also be used on built-up roof surfaces, metal roofs, porous concrete, cement and masonry surfaces to both enhance appearance and reflectivity.
  - Aids in the protection from harmful Ultra- Violet rays
  - Inhibits rust and corrosion of metal surfaces.
  - Helps lower the inside temperature of a building by reflecting the sun's heat.
  - Contributes to the reduction of "heat island" temperature.

## Application

PERMALUME PREMIUM may be applied using a roller or brush and will require stirring before application. The minimum recommended application rate is 3/4 gallon / square. Coverage of the roofing membrane shall be complete, with no voids or "light" areas in the aluminum coating. Note that more than one coating may be necessary to comply with UL listing requirements. Roof surface temperature at the time of application must be 60° F or higher. Do not apply PERMALUME to damp surfaces, or surfaces with entrapped moisture. For exact application instructions, refer to the label directions and to the DERBIGUM Specifications Manual.

## Packaging

5 gallon pails (18.9 L); 36 pails / pallet - Approx. 2000 lbs (975 kg) / pallet  
55 gallon drums (208 L); 4 drums/ pallet - Approx. 2,250 lbs (1022 kg) / pallet

## Product Information

Reflectance:	.77 Initial; .53 Aged.
Emissivity:	E408 .58
Weight/Gallon:	8.5 lbs
VOC: Not to exceed:	500 gms/L
Non-Volatile Contents:	60% min. (Solids)
Flash Point:	>100°F (PMCC)



Florida State  
Wide Approval



CERTIFIED  
ISO 9001:2000



WWW.DERBIGUM.COM

**DERBIGUM**  
*Roofing Solutions*

PERFORMANCE Roof Systems, Inc.  
4800 Blue Parkway  
Kansas City, MO 64130  
Phone - 800.727.9872 - Fax 816.921.5007  
E-mail : info@derbigum.com - WWW.DERBIGUM.COM

\* This document cancels and replaces any other document published previously.  
All values shown are nominal and subject to normal manufacturing tolerances.

**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor  
Occupational Safety and Health Administration  
(Non-Mandatory Form)

Form Approved  
OMB No. 1218-0072

**IDENTITY (As Used on Label and List)**  
Permalume Premium®  
*Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.*

Section 1	Emergency Telephone Number 800-727-9872
Manufacturer's Name Performance Roof Systems, Inc.	Telephone Number for Information 800-727-9872
Address (Address, Street, City, State, and ZIP Code) 4821 Chelsea Ave. Kansas City, MO 64130	Date Prepared January 11, 2001
	Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identify Information	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Hazardous Components (Specific Chemical Identity; Common Name(s))				
Cold adhesive composed of:				
Petroleum Asphalt	None Established	5mg/m <sup>3</sup>		
CAS #8052-42-4		8 Hr. TWA (Asphalt fumes)		
Carcinogen: OSHA - No	IARC - Yes	NTP - No		
Aluminum Flake	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>		
CAS #7429-90-5				
SARA Title III	Aluminum (fumes & dust) is listed			
Aromatic Naphtha	Cas # 64742-95*6			
Xylene				
CAS # 1330-20-7	Approximately 5 mass %			
Exposure limit for total product: 50 ppm				
(245 mg/m <sup>3</sup> per 8 hour day)	Recommended	By Exxon		

Section III - Physical / Chemical Characteristics	Unstabilized Asphalt Coating
Boiling Point	300° - 350° F Specific Gravity (H <sub>2</sub> O = 1) 1.0 +
Vapor Pressure (mm Hg.)	2.7 @ 20° C Melting Point N/A
Vapor Density (H <sub>2</sub> O=1)	<1 Evaporation Rate (Butyl Acetate = 1) N/A
Solubility in Water	No
Appearance and Odor	Thin, Silver Liquid, Petroleum Odor
Section IV - Fire and explosion Hazard Data	
Flash Point (Method Used)	100F + TCC Flammable Limits % by vol. LEL 0.9% UEL 6.7%
Extinguishing Media	CO <sub>2</sub> , sand, dry chemical
Special Fire Fighting Procedures	Use air supplied breathing equipment for enclosed areas. Do Not Use Water. If possible, dike w/ sand and let fire burn out.
Unusual Fire and Explosion Hazards	Closed containers may explode if exposed to high heat or open flame.

(Reproduce locally) OSHA 174, Sept. 1985

Section V - Reactivity Data	
Stability	Unstable Stable X
Conditions to Avoid	
Incompatibility (Materials to avoid)	Water, water vapor, open flames, all sources of ignition, acids, caustics.
Hazardous Decomposition or Byproducts	Carbon monoxide and carbon dioxide when burned.
Hazardous	May Occur Will Not Occur X
Conditions to Avoid	
Polymerization	
Section VI - Health Hazard Data	
Route(s) of Entry:	Inhalation? YES Skin? YES Ingestion? YES
Eyes? YES	
Health Hazards (Acute and Chronic)	Prolonged exposure or contact may result in irritation and dermatitis. Harmful or Fatal if swallowed or aspirated.

Carcinogenicity: YES	NTP? NO	IARC Monographs? No	OSHA Regulated? NO
Signs and Symptoms of Exposure	Dizziness, headache, intoxication with euphoria leading to unconsciousness. Nose & throat irritation. Defatting & dermatitis of skin. Eye contact can cause irritation/blurred vision.		
Medical Conditions Generally Aggravated by Exposure	Existing eye, skin and respiratory disorders.		
Emergency and First Aid Procedures	Remove individual to fresh air. If irritation persists, seek medical attention. Clean affected area with waterless hand cleaner. Do not induce vomiting. Flush eyes with large amounts of water.		
Section VII - Precautions for Safe Handling and Use	Keep away from source of ignition, open flame. Exterior use only. Steps to Be Taken in Case Material is Released or Spilled		
	Ventilate area if necessary. Isolate from oxidizers, heat, open flame. Clean up with absorbent material.		

Waste Disposal Method	CERCLA amendment on disposal of containers should be followed. Clean tools and Equipment w/ kerosene, adhering to manufacturer's precautions. DO NOT use gasoline or Naphtha.
Precautions to Be Taken in Handling and Storing	Keep away from sources of ignition. Use only with adequate ventilation. Avoid prolonged or repeated contact with skin. Wear protective clothing. Keep out of reach of Children.
Other Precautions	Avoid prolonged contact. Wash thoroughly after use. For industrial use only.
Section VIII - Control Measures	
Respiratory Protection (Specify Type)	N/A under normal conditions of use, use NIOSH approved breathing apparatus if necessary.
Ventilation	Local Exhaust Normally used outdoors Special None Mechanical (General) N/A Other
As needed.	Yes, solvent resistant gloves Eye Protection Use goggles or safety glasses
Protective Gloves	Yes, solvent resistant gloves Eye Protection
Other Protective Clothing or Equipment	Impervious work clothing is recommended.
Work/Hygiene Practices	None