

PERMACOOL PRIMER™

Elastomeric Primer for Modified Bitumen

Product Description

- ▶ PERMACOOL PRIMER is a proprietary, thin viscosity, water-based light gray material formulated with SuperTac™, a unique polymer resins blend, to provide superior adhesion to DERBIGUM® and DERBICOLOR® modified bitumen membrane systems.

Uses

- ▶ To promote adhesion, PERMACOOL PRIMER is applied to all surfaces to be coated prior to the application of PERMACOOL Reflective Elastomeric Roof Coatings.

Special Characteristics

- ▶ Improves Adhesion
Fills small surface irregularities and mechanical defects thus enhancing the coating system adhesion.
- ▶ Serves as a Base Coat Promotes even polymer distribution. The light gray color contrasts with the white finish coat to ensure proper coverage of PERMACOOL.
- ▶ Easy to Apply and Clean Up
Apply with airless spray equipment (1 to 2 GPM; Tip Size: .015-.027) or roller. Clean up with water.
- ▶ Environmental Friendly and VOC Compliant
Water based material. No harmful fumes or dangerous chemicals.
Non-Combustible.

Application

The PERMACOOL System is applied by spray or roller in a two-coat application totaling 2.0 to 2.25 gallons per 100 SF. First, apply PERMACOOL PRIMER at a rate of 0.75 gallons per 100 SF on smooth Derbigum surface (1.0 gallons per 100 SF on DERBICOLOR granule surfaces). Allow to dry for 4 hours minimum. Then, apply PERMACOOL finish coat at a rate of 1.25 gallons per 100 SF and at a 90° angle to the Primer coat application direction. For DERBICOLOR spray application, the coating must be back rolled to avoid shading and voids. Allow to dry for 16 to 24 hours. Inspect surfaces and laps for insufficient coating thickness. Corrective action requires additional coating application. Additional coats may be applied at 1.0 to 1.25 gallons per 100 SF per coat.

Exceeds ASTM D 6083, Standard Specification for Liquid Applied Acrylic Coating Used in Roofing¹.

¹ Except low temperature flexibility. See membrane Manufacturer's recommendations.

Surface Preparation: Surfaces receiving the PERMACOOL System must be completely dry and free of dirt, debris, algae, mildew, oil, talc, exudates, loose granules, etc., which will inhibit adhesion. Membrane surfaces must be pressure washed (3,000 psi minimum) with a mild detergent, chlorine bleach and water solution. Use a stiff bristle broom to remove stubborn dirt. Repeat process until surface is clean. Rinse thoroughly. Allow surface to dry completely prior to application.

PERMACOOL is a UV radiant curing material and should be applied on warm sunny days for best results. Low temperatures, high humidity and overcast skies will inhibit curing and may result in wash off. Not for use in areas which pond water in excess of 48 hours. DO NOT apply below 50°F or above 100°F. DO NOT allow to freeze.

Packaging

- 5 Gallon Pails (18.9 liters)
- 55 Gallon Drums (208.2 liters)

Product Information

- Weight: 10.2 lbs./gallon (1.22 kg/L)
- VOC: < 100 grams/liter
- Flash point: non combustible



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

DERBIGUM
Roofing Solutions

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May be used to comply with Occupational Safety and Health Administration (OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.

IDENTITY (As Used on Label and List)

PERMACOOL PRIMER

SECTION I
 Manufacturer Name: Performance Roof Systems, Inc.
 Address: 4821 Chelsea Ave, Kansas City, MO 64130
 Emergency Telephone Number: 800-727-9872
 Telephone Number for Information: 800-727-9872
 Date Prepared: January 12, 2000
 Signature of Preparer (Optional):

SECTION II — Hazardous Ingredients/Identity Information

Hazardous Components	CAS NO.	OSHA PEL	ACGIH TLV	%(Optional)
Acrylic Latex Roof Coating Composed of:				
Titanium Dioxide	13463-67-7	10mg/m ³	10mg/m ³	< 10.0%
Zinc Oxide	1314-13-2	10mg/m ³	10mg/m ³	< 5.0%

SECTION III — Physical / Chemical Characteristics

Boiling Point	212 °F/100 °C	Specific Gravity (H ₂ O=1)	1.3
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR=1)	> 1.0	Evaporation Rate (Ether=1)	Slower
Solubility in Water	Soluble	Water Reactive	No
Appearance and Odor	White or Colored Liquid. Slight ammonia odor.		

SECTION IV — Fire and Explosion Hazard Data

Flash Point	Non-Combustible	Method Used	PMCC
Flammable Limits % by Wgt.	LEL 1.1%	UEL 25.0%	
Extinguishing Media	CO ₂ dry chemical, water mist or fog.		
Special Fire Fighting Procedures	Cool closed containers with water. Wear full protective equipment including self-contained breathing apparatus.		
Unusual Fire and Explosion Hazards	Closed container may explode in extreme heat		

SECTION V — Reactivity Data

Stability	Stable	X	Unstable
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Incompatibility (Materials to avoid) Materials which react with water.

Hazardous Decomposition or Byproducts: None Known
 Hazardous Polymerization: May Occur Will Not Occur X

SECTION VI — Health Hazard Data

Routes of Entry: Inhalation? Yes Skin? Yes Ingestion? Yes

Health Hazards (Acute and Chronic): Breathing of high vapor concentrations may cause nausea, dizziness, irritation to nasal and respiratory passages.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Signs and Symptoms of Exposure: Nausea, dizziness, headache, respiratory irritation, Vomiting, eye and skin irritation.

Medical Conditions Generally Aggravated by Exposure: Continuous and repeated exposure can aggravate pre-existing eye, skin and respiratory disorders.

Emergency and First Aid Procedures:
 Inhalation: Move individual to fresh air
 Ingestion: Drink two glasses of water. Do not induce vomiting. Consult a physician.
 Skin: Wash thoroughly with soap and water.
 Eyes: Flush with water for 15 minutes. If irritation persists consult a physician.

SECTION VII — Precaution for Safe Handling and Use

Steps to Be Taken in Case of material is Released or Spilled: Soak up material with absorbent material. Let dry. Discard material.

Waste Disposal Method: As solid waste per local, state and federal regulations.

Precautions to Be Taken in Handling and Storing: Use and store this product between 40 °F and 100 °F with adequate ventilation.

Other Precautions: Keep away from children. Do not take internally. Keep container closed after use. Avoid eye and skin contact.

SECTION VIII — Control Measures

Respiratory Protection: Use NIOSH approved air respirator during use.

Ventilation: For out door use only. Provide sufficient ventilation.

Protective Gloves: Optional. Use to avoid skin contact.
 Eye Protection: Use safety glasses or eye shield.
 Other Protective Equip: None required.

Work/Hygienic Practices: Wash hands and exposed skin after use.