

POLAROOF AC™

Acrylic Waterproofing Coating



Performance
Coatings & Sealants
Systems

DESCRIPTION

POLAROOF AC is a premium quality, waterproof, tough, elastic coating with unique properties that extend the lifespan of most roofs. The technology behind the formulation of this material uses acrylic chemistry and advanced mineral design to create a composite coating that forms a shield to protect against water penetration, corrosion, and stress fatigue from thermal cycling. Long-term waterproofing is maintained by tenacious adhesion to the substrate and flexibility over a wide temperature range without cracking at low temperatures or melting or flowing at high temperatures. The hydrophobic nature of the mineral structure within the composite forms a barrier to prevent the ion transfer that characterizes corrosion. Additionally, the ability to suppress stress fatigue by absorbing the heat energy and conversation through endothermic reaction will significantly enhance the longevity of the roof structure.

OUTSTANDING FEATURE

- ✓ Available in a wide range of standard and custom colors
- ✓ Carries the highest U.L. rating for fire protection at unlimited slope
- ✓ EPA Energy Star rating reassures significant energy savings
- ✓ Provides long lasting waterproofing protection

- ✓ Reduces stress fatigue due to thermal cycling
- ✓ May be combined with I.F. reflecting basecoat to lower B.T.U. consumption
- ✓ Very fast setting to prevent wash-off
- ✓ Completely dry surface remains clean
- ✓ Performs on all standard roofing substrates
- ✓ Environmentally friendly (contains no solvents)
- ✓ Inhibits corrosion
- ✓ Can easily be recoated without use of primer
- ✓ Resists fungal attack
- ✓ Remains flexible, tough, and weatherproof in all climates

- ✓ Will not get brittle and crack with age
- ✓ Protects against UV deterioration
- ✓ Ten year material warranty
- ✓ May be recoated to last 20 or 30 years

APPLICATION

READ THIS ENTIRE DATA SHEET BEFORE CONTINUING

Surfaces must be dry, free of dirt, loose debris, oil, grease, or any substance that could interfere with bond. All repairs of damage or defects must be made prior to application.

POLAROOF AC is an alkaline water-based product. POLAROOF AC is applied straight out of the can after 2 minutes of gentle low speed mixing or

SPECIFICATIONS	
Coating	Acrylic elastomeric
VOC	10 grams/liter
Pot Life	Not applicable (single component)
Shelf Life	12 months unopened
Recommended Thickness	32 dry mils
Coverage	3 gallons per 100 square feet; 48 wet mils
Packaging	5 gallons standard; 1 gallon and 55 gallon sizes available
Color	White, Black, Red, Green, Dark Gray, and Colonial Gray are standard. Other colors are available
EPA:	Complies with all existing regulations

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stirring. Apply the product using brush, roller, or spray technique. Apply in 2 coats to a uniform wet film thickness of about 24 mils per coat to insure complete coverage on the 2nd coat. Apply the 2nd coat after the 1st coat has set (about 2-4 hours). For spray applications, use a 30:1 ratio Graco with a #36 tip or similar equipment. For soft brush or high nap roller application, use light pressure and coat in a cross direction to the 1st coat. For additional information, contact our Technical Department.

LIMITATIONS

Do not apply to frozen or saturated surfaces. Do not apply if the temperature is predicted to drop below 35°F within 4 hours after application is completed. Do not apply if rain is forecast within 4 hours of completion of application. Protect POLAROOF AC from freezing. In roofing areas where water is likely to pond and be present for more than 1 day after precipitation, it is advisable to topcoat the POLAROOF AC with Clearcoat 44 or Clearcoat AQ. Apply the Clearcoat in these areas at the rate of 1 gallon per 200 square feet.

PRECAUTIONS

Avoid contact with skin and eyes. In case of contact, immediately eyes, get medical attention in addition to flushing. Avoid inhalation of spray mist. If inhaled, seek medical attention. In case of ingestion, contact a physician immediately. Wear rubber gloves, coveralls and safety goggles when applying.

MAINTENANCE

If a surface becomes dirty or stained, wash with a mild soapy water solution. If an area becomes nicked or cut, recoat with POLAROOF AC. Clean tools and equipment with water before the POLAROOF AC dries; after that solvent cleaning may be necessary.

TECHNICAL DATA		
Moisture Vapor Transmission	3.5 perms	ASTM E-96
Tensile Strength	250 psi	ASTM D-412
Elongation	750%	ASTM D-412
Impact Resistance	4 mm indent. pass	BS3900 Part E3
Solids	73% (B.W.), 67% (B.V.)	ASTM D-1044
Flashpoint	Non-flammable	Closed Cup
Weatherometer (5000 hours)	Pass	ASTM G23
Fire Rating	Class A	ASTM E-108
Shore 'A' Hardness	60 degrees	ASTM D-2240
Viscosity	7,000 cps	
Density	Average 11.5 lbs/gal	
pH	9.0	

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