

POLAROOF RAC-OZ™



Chemical-Resistant Waterproofing Coating

DESCRIPTION

POLAROOF RAC-OZ is a two-component liquid urethane system that incorporates the performance enhancements of oxazolidone chemistry. It cures to a reflective, rubber-like finish that possesses exceptional toughness and durability. POLAROOF RAC-OZ is an energy-efficient waterproofing membrane that resists the spread of flame and is designed for situations where strength, chemical and oil resistance, and a totally waterproof surface are required.

OUTSTANDING FEATURES

- Provides protection against pollutants, oil, grease and lubricants.
- Fire retardant coating protects roof against grease fires.
- Significantly improves resistance to impact, puncture and roof traffic abuse.
- Prevents adhesion of grease deposits to allow for easier cleaning.
- Helps reduce energy costs by providing both solar reflection and radiant heat reflection.
- Produces a fully adhered, seamless, high density, waterproofing membrane.
- Protects substrate against rust, corrosion, chemical and fungal attack, UV radiation, and bird peck damage.
- Easy to apply by brush, roller, or airless spray.
- Warrantied for 10 years.

APPLICATION

Surfaces must be dry, free of dirt, loose debris, oils, grease or any substance that could interfere with adhesion. Surface must remain at least 5°F above dew point during the application and curing process. Refer to the POLAPRIME Data Sheet for information regarding selection of appropriate primer, if necessary. PolarooF RAC and OZ Catalyst are combined to become PolarooF RAC-OZ, this is achieved by mixing a one quart unit of OZ Catalyst into a five gallon pail of PolarooF RAC. Mixing will require the use of a power stirrer and should proceed for at least 3 minutes to achieve complete dispersion. Reinforcing over seams is achieved by embedding ROOFAB into a fresh coat of POLAROOF RAC-OZ applied at 15 to 25 mils wet thickness. The fabric is then brushed thoroughly to squeeze the POLAROOF RAC-OZ upwards to remove all voids, fishmouths and dry

spots. A second coat is then applied to seal the surface of the fabric. Bolt-heads and complex penetrations should be sealed with sufficient POLAROOF RAC-OZ modified with K CATALYST. As soon as the modified POLAROOF RAC-OZ has dried, it may be coated with additional POLAROOF RAC-OZ.

Application over all types of single-ply roofs requires the preparation detailed above, including reinforcement of seams. Some types of rubber will swell slightly immediately upon application. This is normal, the adhesion process is complete when the original dimensions have returned. New urethane foam should receive 2 coats of POLAROOF RAC-OZ at 15 mils wet thickness per coat. Sudden precipitation will not wash POLAROOF RAC-OZ off when wet or newly applied, but will produce a mottled, dull appearance that is not detrimental to

SPECIFICATIONS	
Coating	Oxazolidine Urethane
VOC	190 gms/liter
Pot Life	6 hours @ 70°F
Shelf Life	2 years (unopened) from date of manufacture
Recommended Thickness	2 coats yield 30 mils Dry Film Thickness (DFT)
Coverage	33 to 50 SF per gallon; 2 to 3 gallons per 100 SF (total for recommended 2 coats)
Packaging	Combining the PolarooF RAC and OZ Catalyst yields 5.25 gallons
Color	Bright silver

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overall appearance. POLAROOF RAC-OZ should never be applied to a wet or damp surface, or pinholes may result.

LIMITATIONS

Shelf life is 24 months in unopened cans. Part-full cans should be avoided. Storage must be out of direct sunlight at below 90°F to avoid skinning. Once mixed POLAROOF RAC-OZ must be used within 12 hours.

MAINTENANCE

Damaged areas may be repaired by

cleaning surface and application of POLAROOF RAC-OZ as described in application section.

PRECAUTIONS

Read the SDS for POLAROOF RAC and OZ CATALYST before using. Contains solvent and reactive isocyanate groups. Do not get in eyes or on skin or clothing. It is recommended that standard safety equipment such as chemical splash goggles, rubber gloves and coveralls be worn when handling this product. Inhalation should be avoided. Persons with known

respiratory allergies should avoid exposure to this product. In case of contact with skin or eyes, flush with water for 15 minutes. If inhaled, swallowed, or in event of eye contact, seek medical attention immediately.

Keep out of reach of children and pets.

For additional information, contact our Technical Department.

TECHNICAL DATA		
Moisture Vapor Transmission	1.57 perms	ASTM E-96
Tensile Strength	1,800 psi	ASTM D-412
Elongation	500%	ASTM D-412
Flexibility at Low Temperatures	180° bend @ -10° C	ASTM C-711
Shore 'A' Hardness	64 degrees	ASTM D-2240
Surface spread of flame	Class 1	ASTM E-108
Puncture Resistance	200 psi	ASTM D-154-79
Viscosity at 70°F	4,500 cps	ASTM D-446
Drying Time @ 80°F (70% R.H.)	24 hours (to walk on)	
Total Cure @ 80°F (70% R.H.)	48 hours (to 56 deg. Shore 'A')	
Solids Content	84% (B.W.); 92% (B.V.)	ASTM D-1044
Application Equipment	Brush, roller or spray	
Cleaning of Equipment	Xylene or Aromatic Naptha	

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