

# POLAROOF RAC™

## Urethane Waterproofing Coating



### DESCRIPTION

POLAROOF RAC is a single component urethane, modified with bright aluminum flakes and fire retardant chemicals. It is especially designed as a waterproofing membrane for all kinds of roofing. POLAROOF RAC is tough and elastic with a high tensile strength and good puncture resistance, and contains corrosion-inhibiting pigments for protection against rust and acid rain. POLAROOF RAC is approved by Underwriters Laboratories® (UL) and Factory Mutual Research Corporation® (FM).

### OUTSTANDING FEATURES

- Can be used over BUR, single-ply, metal, concrete, foam, wood, primed composites, masonry and others
- Produces a fully adhered, seamless, high density, waterproofing membrane
- Protects substrate against rust, corrosion, UV damage and acid rain
- Easy to apply directly out of the container by brush, roller or airless spray
- May be used on vertical, pitched and horizontal surfaces and withstands ponding water
- Lightweight membrane does not require removal old roofing materials, saving time and money

- Produces a waterproof surface that will not be deteriorated by fungal growth or algae
- Remains flexible, tough and weatherproof at low temperatures and will not flow at high temperatures
- Rapidly develops high tensile strength
- Will not re-emulsify or wash away with rainwater
- Will not become brittle and crack with age
- Can be easily recoated

### APPLICATION

Surfaces must be dry, free of dirt, loose debris, oils, grease or any substance that could interfere with adhesion. Refer to the Polaprime data sheet for information regarding selection of appropriate primer if necessary. Application over

4" or 6" wide ROOFAB into a fresh coat of RAC applied at 15 mils wet thickness. The fabric is then saturated with a second application at sufficient thickness to remove all voids, fishmouths and dry spots. Bolt-heads on metal roofs should be daubed with sufficient RAC that they are encapsulated to the point of rundown. As soon as the POLAROOF RAC has dried, it may be coated with RAC or other compatible topcoat. Application over E.P.D.M., modified and other rubber roofs requires the preparation detailed above, including reinforcement of seams. Some rubbers 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 RAC at 15 mils wet thickness per coat to be sure that no foam is exposed to pinholes

SPECIFICATIONS	
Coating	Moisture-cure
VOC	200 gms/liter
Pot Life	Single component
Shelf Life	12 months
Recommended Thickness	30 mils dry film thickness
Coverage	2 to 3 gallons per 100 square ft
Packaging	1 gallon, 5 gallon, and 55 gallon containers
Color	Bright Silver

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detrimental to its overall performance. POLAROOF RAC should never be applied to a wet or damp surface, or pinholes may result.

### LIMITATIONS

Shelf life is 12 months in unopened cans. Part-full cans should be avoided. Storage must be out of direct sunlight at below 90°F to avoid skinning.

### MAINTENANCE

Damaged areas may be repaired by cleaning surface and application of POLAROOF RAC as described in Application section.

### PRECAUTIONS

Contains solvent and reactive isocyanates. Read MSDS thoroughly before using. Do not get on skin or in eyes. Do not ingest or inhale vapor. Make sure that vapor does

not enter building. If skin is contaminated, use suitable cleanser; if eyes are contaminated, wash with water for 15 minutes and seek medical attention. If clothing is contaminated, discard. If ingested, do NOT induce vomiting and seek medical attention. If inhaled, remove person to fresh air.

**Keep out of reach of children and pets.**

TECHNICAL DATA		
Moisture Vapor Transmission	1.57 perms	ASTM E-96
Tensile Strength	600 psi	ASTM D-412
Elongation	500%	ASTM D-412
Flexibility at Low Temperatures	180° bend @ -10° C	ASTM C-711
Shore 'A' Hardness	56 degrees	ASTM D-2240
Surface spread of flame	Class 1	ASTM E-108
Puncture Resistance	120 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.)	72 hours (to 56 deg. Shore 'A')	
Solids Content	82% (B.W.); 94% (B.V.)	ASTM D-1044
Application Equipment	Brush, roller or spray	
Cleaning of Equipment	Xylene or Aromatic Naptha	

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