

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. Reinforcing over seams on metal roofs is achieved by embedding ROOFAB into a fresh coat of POLAROOF RAC applied at 15 to 25 mils wet thickness. The fabric is then brushed thoroughly to squeeze the POLAROOF RAC

upwards to remove all voids, fish-mouths and dry spots. A second coat is then applied to seal the surface of the fabric. Bolt-heads on metal roofs should be daubed with sufficient POLAROOF RAC that they are encapsulated to the point of rundown. As soon as the POLAROOF RAC has dried, it may be coated with POLAROOF 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 types of 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 POLAROOF RAC at 15 mils wet thickness per coat. Sudden precipitation will not wash POLAROOF RAC off when wet or newly applied, but will produce a mottled, dull

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SPECIFICATIONS	
Coating	Moisture-cure
VOC	200 gms/liter
Pot Life	Not applicable (single component)
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	1 gallon, 5 gallon and 55 gallons sizes
Color	Bright silver

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appearance that is not detrimental to overall appearance. POLAROOF RAC 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.

MAINTENANCE

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

PRECAUTIONS

Read the container label warning and Material Safety Data Sheet (MSDS) for important health and safety information prior to the use of this product.

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	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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