POLYCOAT™ PC-IM 129

NSF 61 Approved, Aromatic, Waterproofing Membrane

Product Description

Polycoat™ PC-IM 129 is a two component, liquid applied, asphalt extended aromatic polyurethane that adheres to most substrates, to form a waterproof membrane. Polycoat™ PC-IM 129 is ANSI / NSF-61 approved for contact with potable water.

Features

- Bridges Cracks and Joints
- Economical
- Impervious To Water and Aqueous Chemicals
- Low VOC
- NSF-61 Approved
- Seamless Waterproofing
- UV stability and versatile physical performance properties that resists seasonal freeze thaw cycles
- Weather resistant and UV stability under harsh seasonal conditions

Typical Uses

- Containment
- Corrosion Protection
- Pond Liner
- Ponds (with scrim)
- Potable Water Containment / Storage
- Reservoirs (with scrim)
- Roofing (with scrim)
- Tank Liner
- Waterproofing

Common Substrates

- Asphalt
- Concrete
- Glass
- Metal
- Steel
- Wood

Packaging

1-Gallon Kit	One 1 pint can, net fill 0.1 gallon (0.38 liters) of Side-A and One 1 gallon can, net fill 0.9 gallon (3.4 liters) of Side-B
4.5-Gallon Kit	One 1/2 gallon jar, net fill 0.45 gallon (1.70 liters) of Side-A and One 5 gallon pail, net fill 4.05 gallon (15.30 liters) of Side-B

Technical Data (Based on Draw Down Film)

Coverage Rate	2 gal/100 sqft (0.82 l/sqm)
ANSI/NSF 61 Approved up to	140°F (60°C)
Elastomeric Waterproofing **ASTM C836** **ASTM C957**	 Exceeds Exceeds
Total Solids by Volume, ASTM D2697	89%
Volatile Organic Compounds, ASTM D2369-81	87 gm/liter
Mullen Burst Strength, ASTM D751 50 mil	155 ± 25 psi (no break)
Tear Strength, ASTM D624 (Die C)	150 ± 50 lbs/in
Tensile Strength, ASTM D412, 100 mil sheet	900 ± 100 psi
Extension to Break, ASTM D412	450 ± 100%
Membrane Weight, 60 mils (1.5mm WFT)	approx. 30 lbs/100 sqft 1.5 kg/sqm
Recovery from 100% extension, **After 5 minutes** **After 24 hours**	 98% 100%
Crack Bridging, **10 cycles @ - 15°F** **After Heating Aging**	 > 1/8" (0.325 cm) > 1/4" (065 cm)
Weathering, ASTM D822	Pass 5000 hrs.
Softening Point, Ring Ball, ASTM D36	> 400°F (204 °C)
Deflection Temp., ASTM D648	Pass
Service Temperature	-60 to 200°F (-51.1 to 93.3°C)
Hardness, ASTM D2240 @ 77°F	50 ± 5 Shore A
Permeability to Water Vapor, ASTM D96 method E, 100°F, 100 mil sheet	0.06 perm
Abrasion Resistance - Wt. Loss Taber Abraser CS-17Wheel, 1000 gr./1000 rev., ASTM D4060	7.2 mg loss
Electrical Resistivity, ASTM D257, 50% R.H. 23°C, 2" (50mm) disc, 100 mil (2.5mm) thickness	3.86 x 10E14 ohn.cm
Adhesion to Concrete (dry) Elcometer	350 ± 50 psi
Mullen Burst Strength, ASTM D751, 50ml	155 psi
Working Time (Pot Life) @ 77°F	18-20 min

Color

Black, surface color fades to dull black. Physical integrity remains.

***Note**: In applications where NSF-61 approval is not required, Polycoat™ PC-IM 129 may be topcoated with Pigmented Polyglaze™ 100 for a UV stable color.

Coverage
The approximate coverage is 2 gallon/100 sqft (0.82 l/sqm). Coverage rate will depend on surface roughness and porosity.

Surface Preparation
Refer to General Guidelines for complete information.

Mixing
Proportions are premeasured. Using a mechanical mixer, pre-mix Polycoat™ PC-IM 129 Side-B material thoroughly to attain a uniform color. Add Side-A to Side-B material and box and mix thoroughly until a uniform mixture is achieved.

Do not mix in an up and down motion. Use care not to allow the entrapment of air into the mixture. Polycoat™ PC-IM 129 should not be mixed by hand.

Application
Apply two coats of Polycoat™ PC-IM 129 at 2 gallons/100 sqft (0.8 liters/sqm) or 50 sqft/gallon each coat directly to a clean, dry substrate meeting the substrate requirements set forth in the general guidelines.

Application of Polycoat™ PC-IM 129 should not start if surface temperature is below 50° F (10° C).

Ambient temperature must be 5ºF (3ºC) above dew point.

Do not apply when the ambient or substrate temperature is rising.

Squeegee, notched trowel or phenolic resin core roller may be used; if a roller is used extra care should be taken not to trap air bubbles into the mixture. For most applications, apply Polycoat™ PC-IM 129 evenly over the entire deck in two coats at 2 gallons/100 sqft (0.8 liters/sqm) or 50 sqft/gallon resulting in 28 dry mils & 112 microns) per coat.

Polycoat™ PC-IM 129 may be recoated one hour after application. Recoating/Multiple or Second coats must be completed within eight (8) hours of previous applications of Polycoat™ PC-IM 129. After this eight (8) hour window, it is necessary to abrade, clean and prime surface prior to recoating.

Abrading shall be by grinder or other mechanical means.

Note: The concrete substrate must be primed with Polyprime® 21 in submerged conditions.

Curing
At 75°F (24°C) and 50% relative humidity, allow coating to cure for 24 hours before allowing foot traffic.

Polycoat™ PC-IM 129 is sensitive to heat and moisture. Higher temperature and relative humidity will accelerate the curing time. If more than 8 hours passes between coats, re-prime the surface with Polyprime® U before proceeding.

Cleanup
Equipment should be cleaned with mineral spirits or an environmentally-safe solvent, as permitted under local regulations, immediately after use.

Storage
Polycoat™ PC-IM 129 has a shelf life of one year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

Limitations
The following conditions must not be coated with Polycoat Products deck coating systems or products: on grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, swimming pools, magnesite, lightweight concrete. Asphalt surfaces and asphalt overlays may be coated with Polycoat coating systems if first coated with the Polycoat™ PC-IM 129.

Do not apply Polycoat™ PC-IM 129 in wet weather or if rain is imminent. Coating should not become wet within 4 hours after application. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance.

Warning

This product contains Isocyanates, Asphalt and Solvent.