

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	Exceeds
ASTM C957	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	98%
After 24 hours	100%
Crack Bridging,	
10 cycles @ - 15°F	> 1/8" (0.325 cm)
After Heating Aging	> 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,	0.06 perm
ASTM D96 method E, 100°F, 100 mil sheet	
Abrasion Resistance - Wt. Loss Taber Abraser	7.2 mg loss
CS-17Wheel, 1000 gr./1000 rev., ASTM D4060	
Electrical Resistivity, ASTM D257, 50% R.H.	3.86 x 10E14 ohn.cm
23°C, 2" (50mm) disc, 100 mil (2.5mm) thickness	
Adhesion to Concrete (dry) Elcometer	350 ± 50 psi
Mullen Burst Strength, ASTM D751, 50mil	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 5°F (3°C) 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.

Limited Warranty: Please read all information in the General Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. These products are for professional use only and preferably applied by professionals who have prior experience with the Polycoat Products materials or have undergone training in application of Polycoat Products materials. Published technical data and instructions are subject to change without notice. Contact your local Polycoat Products representative or visit our website for current technical data, instructions, and project specific recommendations.

Polycoat Products warrants its products to be free of manufacturing defects and that they will meet Polycoat Products' current published physical properties. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by Polycoat Products of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Polycoat Products shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Polycoat Products shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Polycoat Products reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

Disclaimer: All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Polycoat Products makes no claim that these tests or any other tests accurately represent all environments. Polycoat Products is not responsible for typographical errors.

© 2024 Polycoat Products. All rights reserved. Revision 20240621.AG