

Product Description

PC-220SF is a single component, high solids, low odor, solvent free, environmentally safe, liquid applied, moisture-cured, aromatic polyurethane elastomeric waterproofing base membrane.

Features

- Solvent Free
- Moisture Cured
- Seamless Waterproofing Membrane

Typical Uses

- Concrete
- Masonry Surfaces
- Metal
- Plywood
- Wood

Packaging

| | |
|------------------|--|
| 5-Gallon | 5 gallon (18.9 liters) pail |
| 55-Gallon | 55 gallon drum, net fill 50 gallons (189 liters) |

Color

Grey, Tan, or custom color.

Not a stock item. Minimum order of 250 gallons (945 liters) is required. See color chart for special provisions. Contact Polycoat Products for more information.

Surface Preparation

Refer to General Guidelines for complete information.

Mixing

Before application, mix PC-220SF using a mechanical mixer at slow speed thoroughly until a homogeneous mixture and color is attained. Use care not to allow the entrapment of air into the mixture. Do not mix in an up and down motion.

Application

For best results, use a squeegee or notched trowel. A phenolic resin core roller may be used but extra care should be taken not to trap air which may result in bubbles.

Requires a continuous coating application to minimize lines and/or streaking.

It is recommended to apply an aggregate of washed, dry, rounded sand, approximately 16 or 20 mesh (0.84-1.19 mm), 6.5+ Moh's minimum hardness at a rate of 20 lbs/100 sqft (1 kg/sqm) or as required to achieve a slip-resistant finish, into the wet second coat, covering it completely. Broadcast sand until refusal and when the coating is dry, remove extra loose sand, preferably by vacuum.

Most applications require two coats. To achieve proper

Technical Data (Based on Draw Down Film)

Coverage Rate 1 gal/100 sqft
0.41 l/sqm

Dry Film Thickness per Coat 16 ± 2 mils
406 ± 50 microns

Hardness, ASTM D2240 50 ± 5 Shore A

Tear Resistance, Die C, ASTM D624 220 ± 25 pli
38.5 ± 4.4 kN/m

Tensile Strength, ASTM D412 400 ± 100 psi
2.7 ± 0.7 MPa

Ultimate Elongation, ASTM D412 525 ± 75%

Specific Gravity 1.34 ± 0.03

Total Solids by Weight, ASTM D2369 99.99%

Total Solids by Volume, ASTM D2697 99.99%

Viscosity at 75°F (24°C) 6500 ± 2000 cps

Volatile Organic Compounds, ASTM D-2369-81 <0.08 lb/gal
<10 gm/liters

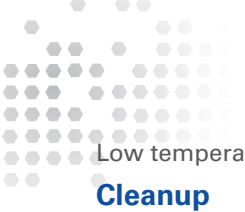
adhesion between coats, it is imperative that re-coating be done within 48 hours.

Curing

At 75°F (24°C) and 50% relative humidity, allow coating to cure 16 hours before proceeding to subsequent coats. Cure time will vary depending on temperature and humidity. If more than 48 hours passes between coats, re-prime the surface with Polyprime U before proceeding.

If accelerated curing is required, add one quart of PC-50 in a 5 gallon pail of PC-220SF and mix thoroughly. This accelerated PC-220SF will cure in 6-8 hours at 75°F (24°C) and 50% relative humidity. If PC-50 Accelerator is used then re-coat should be done within 12 hours after cure. If re-coat window has passed, then solvent wipe the surface with VOC compliant solvent and re-prime surface with Polyprime® U.

PC-220 SF is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application.



Low temperature and/or low humidity extend the cure time.

Cleanup

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

Storage

PC-220SF has a shelf life of 1 year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

Limitations

This product is not UV Stable.

The following conditions must not be coated with Polycoat deck coatings or systems: split slabs, buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, magnesite, and non-structural lightweight concrete. On grade slabs may receive Polycoat system coatings provided a moisture-vapor transmission test is first performed. Please contact Polycoat technical department with the results.

With regard to coating asphalt surfaces, please contact Polycoat technical department.

Surfaces must be dry, clean and free of foreign matter. Clear coating may turn opaque and cloudy due to moisture penetration, especially in exterior applications. Surface may be slippery when wet. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance.

Warning:

This product contains Isocyanates.

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.

© 2025 Polycoat Products. All rights reserved. Revision 20250902.AG