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TECHNICAL DATA SHEET

Poly-I-Gard 295

Manufacturer: Polycoat Products

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**POLYCOAT
PRODUCTS**

A Division of American Polymers Corp.

TECHNICAL DATA SHEET | Section 7.8

POLY-I-GARD™ 295/295OF

*Hybrid, Aliphatic,
Polyurea Waterproofing Membrane Topcoat*

Product Description

Poly-I-Gard™ 295/295OF is a two component, fast setting, rapid curing and solvent free, high solids, hybrid aliphatic polyurea elastomeric membrane. Poly-I-Gard™ 295/295OF can be applied to properly prepared interior or exterior concrete, plywood and metal surfaces. It is suitable for single or multiple applications, in temperatures as low as 20°F (-6.67 C) and is insensitive to moisture. Polycoat Products manufactures products in different VOC's ranging from 100 to 340 gms/liter to comply with VOC requirements in various regions. Make sure to use the correct grade of product which complies with VOC regulations/requirements applicable as per federal, state, statutory, counties, cities and local bodies at the place of installation.

Features

- Environmentally Safe
- High Solids
- High Tensile Strength
- Meets USDA Criteria
- Non-Gassing
- Quick Cure
- Seamless
- UV Stable

Typical Uses

- Kennels
- Mechanical Room Floors
- Pedestrian Decks
- Vehicular Decks

Packaging

4.4-gallon kit One 5 gallon (net 4 gallons, 15.4 liters) pail of Side-A and one 1/2 gallon (net 0.4 gallon, 1.54 liters) jar of Side-B.

Color

Dolphin Grey and Tan

Custom colors are also available. Minimum order of 250 gallons (945 liters). See color chart for special provisions. Contact Polycoat Products for more information.

Coverage

The approximate coverage is 1 gallon/100 sqft (0.41 l/sqm) or 100 sqft/gallon. Coverage rate will depend on surface roughness and porosity.

Mixing

Before application, pre-mix Side-A of Poly-I-Gard™ 295/295OF using a mechanical mixer at slow speed. Add Side-B of Poly-I-Gard™ 295 and continue mixing until a homogeneous mixture and color is attained. Use caution not to whip air into the material as this may result in pinhole blisters and/or shortened pot life. Do not mix in an up and down motion.

Technical Data (Based on Draw Down Film)

	Poly-I-Gard™ 295	Poly-I-Gard™ 295OF
Mix Ratio by Volume	10A : 1B	10A : 1B
Dry Film Thickness per Coat	15 ± 2 mils 381 ± 50 microns	14 ± 2 mils 356 ± 50 microns
Pot Life @ 75°F (24°C), 50% R.H.	30 ± 10 minutes	30 ± 10 minutes
Cure Time @ 75°F (24°C), 50% R.H.	2-4 Hours	2-4 Hours
Total Solids by Weight, ASTM D2669	94 ± 2%	88 ± 2%
Total Solids by Volume, ASTM D2697	94 ± 2%	87 ± 2%
Hardness, ASTM -2240	85 ± 5 Shore A	85 ± 5 Shore A
Tensile Strength, ASTM D412	3200 ± 200 psi 22.1 ± 1.4 MPa	3200 ± 200 psi 22.1 ± 1.4 MPa
Ultimate Elongation, ASTM D412	400 ± 50%	400 ± 50%
Adhesive Peel Strength on Primed Concrete, ASTM D903	40 ± 10 pli 7.0 ± 1.7 kNm	40 ± 10 pli 7.0 ± 1.7 kNm
Moisture Vapor Transmission, ASTM E96	1.54 perms	1.54 perms
Water Absorption, ASTM D471	1.3% by weight	1.3% by weight
Tear Resistance, ASTM D624	300 ± 20 pli 52.6 ± 8.8 kN/m	300 ± 20 pli 52.6 ± 8.8 kN/m
Volatile Organic Compounds, ASTM D2369-81	<0.12 lb/gal <15 gm/liters	<0.5 lb/gal <60 gm/liters
U.V. Stability, Q Panel Weather O-Meter, (No cracking or crazing; no physical damage)	2000 Hours	2000 Hours

Application

Apply Poly-I-Gard™ 295/295OF evenly, over the entire deck using a 10:1 ratio machine or mixed material, then squeegee or notched trowel over the entire deck.

Requires a continuous coating application to minimize lines and/or streaking. Apply up to 1.5 gallons/100 sqft (5.67 liters/9.29 sqm) or 23 mils (584 microns) in a single application. To attain proper adhesion between coats, it is imperative that re-coating be done within 8-12 hours.

Curing

At 75°F (24°C) and 50% relative humidity, allow each coat to cure a minimum of 2-4 hours. Cure time will vary depending on temperature and humidity. If more than 24 hours passes between coats, reprime the surface with Polyprime® U before proceeding.

Allow a minimum of 2 to 4 hours before permitting light pedestrian traffic and 48 hours before permitting heavy pedestrian or vehicular traffic on the finished surface. These times are of course predicated on ambient temperature and humidity.

Poly-I-Gard™ 295/295OF is sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes. Do not use Polyglaze® Hardener with Poly-I-Gard™ 295.

Cleanup

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

Storage

Poly-I-Gard™ 295/295OF 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

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's technical department with the results.

With regard to coating asphalt surfaces, please contact Polycoat's 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 and Solvent.

Poly-I-Gard™ 295/295OF Side-B is considered Dangerous Goods. DOT regulations classify it as: UN 1760, Corrosive Liquid, N.O.S. (Contains Amine), Class 8, PG III.

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.

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