



**POLYCOAT
PRODUCTS**

A Division of American Polymers Corp.

TECHNICAL DATA SHEET | Section 7.3

POLYGLAZE™ 400/400C/400SC

Aliphatic Polyurethane Topcoat

Product Description

Polyglaze™ 400/400C/400SC is a polyester, aliphatic, single component, liquid applied, moisture cured, polyurethane topcoat for waterproofing membrane systems. 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

- Durable
- UV Resistant for Gloss Retention

Typical Uses

- Concrete
- Heavy Pedestrian Traffic
- Plywood

Packaging

1-Gallon	1 gallon (3.78 liters) can
5-Gallon	5 gallon (18.9 liters) pail
55-Gallon	55 gallon drum, net fill 50 gallons (189 liters)

Color

For Polyglaze™ 400 (340 VOC): Clear and Tan

For Polyglaze™ 400C (250 VOC): Tan, Dolphin Grey, Red and Tint-White. Tint-White with color packs are available in Stone Grey, Battleship Grey, Indian Sand, and Ash Brown.

For Polyglaze™ 400SC (100 VOC): Tint-White with color packs are available in Stone Grey, Dolphin Grey, Battleship Grey, Tan, Indian Sand and Ash Brown.

Custom colors are also available. Minimum order of 250 gallons (945 liters). See color chart for special provisions. Contact Polycoat Products for more information. For pre-tinted standard color other than stock color, a minimum of 150 gallons (567 liters) is required.

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, mix Polyglaze™ 400/400C/400SC using a mechanical mixer at slow speed 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)

	Polyglaze™ 400 (340 VOC)	Polyglaze™ 400C (250 VOC)	Polyglaze™ 400SC (100 VOC)
Coverage Rate	1 gal/100 sqft 0.41 l/sqm	1 gal/100 sqft 0.41 l/sqm	1 gal/100 sqft 0.41 l/sqm
Dry Film Thickness per Coat	10 ± 2 mils 254 ± 50 microns	10 ± 2 mils 254 ± 50 microns	12 ± 2 mils 330 ± 50 microns
Hardness, ASTM D2240	95 ± 5 Shore A	95 ± 5 Shore A	95 ± 5 Shore A
Tear Resistance, Die C, ASTM D624	450 ± 50 pli 78.8 ± 8.8 kN/m	450 ± 50 pli 78.8 ± 8.8 kN/m	450 ± 50 pli 78.8 ± 8.8 kN/m
Tensile Strength, ASTM D412	3800 ± 300 psi 26.2 ± 2.1 MPa	4000 ± 300 psi 27.6 ± 2.1 MPa	4000 ± 300 psi 27.6 ± 2.1 MPa
Ultimate Elongation, ASTM D412	250 ± 25%	250 ± 25%	200 ± 25%
Specific Gravity	1.14 ± 0.03	1.25 ± 0.03	1.3 ± 0.03
Total Solids by Weight, ASTM D2369	73 ± 2%	74 ± 2%	75.6 ± 2%
Total Solids by Volume, ASTM D2697	64 ± 2%	67 ± 2%	73.4 ± 2%
Viscosity at 75°F (24°C)	1200 ± 500 cps	1500 ± 500 cps	2000 ± 500 cps
Volatile Organic Compounds ASTM D2369-81	2.79 lb/gal 334 gm/liters	2.09 lb/gal 250 gm/liters	0.82 lb/gal 98 gm/liters

Application

Apply Polyglaze™ 400/400C/400SC evenly over the entire deck. For best results, use a squeegee. Airless sprayer or phenolic resin core roller may be used but extra care should be taken not to cause air bubbles.

Polyglaze™ 400/400C/400SC may require more than one coat depending on the job specifications and requirements. When estimating material requirements, coverage rates tend to increase for subsequent coats of material. To achieve proper

adhesion between coats it is imperative that recoating be done within 48 hours.

When Polyglaze™ 400/400C/400SC Clear is used as a seal coat only, the surface must be clean, dry and primed with Polyprime® U to achieve proper adhesion to the surface. Polyprime® may discolor when used under Polyglaze™ 400/400C/400SC Clear as a seal coat. Requires a continuous coating application to minimize lines and/or streaking.

Curing

At 75°F (24°C) and 50% relative humidity, allow each coat to cure 16 hours. Cure time will vary depending on temperature and humidity.

Allow 24 hours before permitting light pedestrian traffic and at least 72 hours before permitting heavy pedestrian or auto traffic on to the finished surface. If more than 48 hours passes between coats, re-prime the surface with Polyprime® U before proceeding.

Uncured Polyglaze™ 400/400C/400SC 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.

If accelerated curing is required, add one quart (0.95 liter) of Polyglaze™ Hardener in a 5 gallon pail (18.9 liters) of Polyglaze™ 400/400C/400SC and mix thoroughly. This accelerated Polyglaze™ 400/400C/400SC will cure in 6-8 hours at 75°F (24°C) and 50% relative humidity. If Polyglaze™ Hardener is used to accelerate curing, the re-coat window for the subsequent coat is reduced to 24 hours after cure. If the recoat window has passed, then solvent wipe the surface with VOC-compliant solvent and re-prime surface.

Cleanup

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

Storage

Polyglaze™ 400/400C/400SC 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.

Polyglaze™ 400/400C/400SC Clear is considered Dangerous Goods. DOT regulations classify it as: UN 1263, PAINT, Class 3, PG III, Flammable Liquid.

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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