



**POLYCOAT
 PRODUCTS**
 A Division of American Polymers Corp.

POLYGLAZE 400 / 400C / 400SC
Aliphatic Polyurethane Topcoat
Technical Data Sheet

DESCRIPTION

Polyglaze 400 is a polyester, aliphatic, single component, liquid applied, moisture cured, polyurethane topcoat for waterproofing membrane systems. Polyglaze 400C is designed for use in most areas of California to be in compliance with air quality standards. Polyglaze 400SC is designed for use in Southern California to be in compliance with SCAQMD air quality standards.

FEATURES

- ❖ Durable
- ❖ Excellent Weatherability
- ❖ Seamless Waterproofing Membrane
- ❖ UV Resistant For Gloss Retention
- ❖ For use in SCAQMD areas, use only Polyglaze 400SC
- ❖ For use in California, excluding SCAQMD areas, use only Polyglaze 400C

TYPICAL USES

- ❖ Concrete
- ❖ Heavy Pedestrian Traffic
- ❖ Some Types of Chemical Spills
- ❖ Re-sealing Existing Polyurethane Surfaces
- ❖ Most Metal, Rubber, Wood, or Masonry Surfaces
- ❖ Plywood
- ❖ Vehicular Traffic

COLOR

For Polyglaze 400 (340VOC): Clear and Tan

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

For Polyglaze 400SC (100VOC): 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.

PACKAGING

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

MIXING

Before application, mix Polyglaze 400 using a mechanical mixer at slow speed until a homogeneous mixture and color is obtained. Use caution not to whip air into the material as this may result in pinhole blisters and/or shortened pot life.

APPLICATION

Apply Polyglaze 400 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.

TECHNICAL DATA (Based on draw down film)	
Polyglaze 400 Pigmented (340 VOC)	
(For Use Outside of California)	
Coverage Rate	See Guide Specification
Dry Film Thickness, exclusive of aggregate, Per coat at 1 gal/100 sq. ft.	10 ± 2 mils 254 ± 50 microns
Hardness, ASTM D-2240	95 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	500 ± 50 pli 87.6 ± 8.8 kN/m
Tensile Strength, ASTM D-412	3800 ± 300 psi 26.2 ± 2.1 MPa
Ultimate Elongation, ASTM D-412	250 ± 25%
Specific Gravity	1.14
Total Solids by Weight, ASTM D-2369	70 ± 2%
Total Solids by Volume, ASTM D-2697	61 ± 2%
Viscosity at 75°F (24°C)	1200 ± 600 cps
Volatile Organic Compounds, ASTM D-2369-81	2.79 lb/gal 334 gm/liter

TECHNICAL DATA (Based on draw down film)	
Polyglaze 400C Pigmented (250 VOC)	
(For Use In California Excluding SCAQMD Areas)	
Coverage Rate	See Guide Specification
Dry Film Thickness, exclusive of aggregate, Per coat at 1 gal/100 sq. ft.	10 ± 2 mils 254 ± 50 microns
Hardness, ASTM D-2240	95 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	450 ± 50 pli 78.8 ± 8.8 kN/m
Tensile Strength, ASTM D-412	4000 ± 300 psi 27.6 ± 2.1 MPa
Ultimate Elongation, ASTM D-412	200 ± 25%
Specific Gravity	1.25
Total Solids by Weight, ASTM D-2369	71 ± 2%
Total Solids by Volume, ASTM D-2697	65 ± 2%
Viscosity at 75°F (24°C)	1500±1000cps
Volatile Organic Compounds, ASTM D-2369-8, (with exempt solvent)	2.09 lb/gal 250 gm/liter

TECHNICAL DATA (Based on draw down film)	
Polyglaze 400SC Pigmented (100 VOC)	
(For Use in SCAQMD Areas)	
Coverage Rate	See Guide Specification
Dry Film Thickness, exclusive of aggregate, Per coat at 1 gal/100 sq. ft.	12 ± 2 mils 305 ± 50 microns
Hardness, ASTM D-2240	95 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	500 ± 50 pli 87.6 ± 8.8 kN/m
Tensile Strength, ASTM D-412	3500 ± 300 psi 24.1 ± 2.1 MPa
Ultimate Elongation, ASTM D-412	200 ± 25%
Specific Gravity	1.31
Total Solids by Weight, ASTM D-2369	75.6 ± 2%
Total Solids by Volume, ASTM D-2697	73.4 ± 2%
Viscosity at 75°F (24°C)	2000 ± 500cps
Volatile Organic Compounds, ASTM D-2369-81, (with exempt solvent)	0.82 lb/gal 98 gm/liter

Polyglaze 400 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 obtain proper adhesion between coats it is imperative that recoating be done within 48 hours.

When Polyglaze 400 Clear is used as a seal coat only, the surface must be clean, dry and primed with Polyprime to achieve proper adhesion to the surface. Polyprime may discolor when used under Polyglaze 400 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 21 or 2180 before proceeding.

Uncured Polyglaze 400 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 of Polyglaze Hardener in a 5 gallon pail of Polyglaze 400 and mix thoroughly. This accelerated Polyglaze 400 will cure in 6-8 hours at 75°F (24°C) and 50% relative humidity

EQUIPMENT CLEANUP

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

STORAGE

Polyglaze 400 a shelf life of one (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

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.

Primer cannot be used between coats of Polyglaze 400 Clear, as it will discolor.

TECHNICAL DATA (Based on draw down film)	
Polyglaze 400 Clear (340 VOC)	
(For Use Outside of California)	
(DOES NOT MEET CALIF. or SCAQMD VOC)	
Coverage Rate	See Guide Specification
Dry Film Thickness, exclusive of aggregate, Per coat at 1 gal/100 sq. ft.	10 ± 2 mils 254 ± 50 microns
Hardness, ASTM D-2240	95 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	500 ± 50 pli 87.6 ± 8.8 kN/m
Tensile Strength, ASTM D-412	5500 ± 500 psi 37.9 ± 3.4 MPa
Ultimate Elongation, ASTM D-412	250 ± 30%
Specific Gravity	0.988
Total Solids by Weight, ASTM D-2369	66.2%
Total Solids by Volume, ASTM D-2697	61.7%
Viscosity at 75°F (24°C)	500 ± 300 cps
Volatile Organic Compounds,	2.78 lb/gal 334 gm/liter

Containers that have been opened must be used as soon as possible.

Do not dilute under any circumstance.

The following conditions must not be coated with Polycoat Products deck coating systems or products: on below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool decks, swimming pools, magnesite, lightweight concrete, asphalt surfaces and asphalt overlays.

WARNING

This product contains Isocyanates and Solvent.

Polyglaze 400 Clear is considered Dangerous Goods. DOT regulations classify it as: **UN 1263, PAINT, Class 3, PG III, FLAMMABLE LIQUID.**

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. 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 and instructions.

LIMITED WARRANTY

Polycoat Products warrants its products to be free of manufacturing defects and that they will meet Polycoat Products current published physical properties. Polycoat Products warrants that its products, when properly installed by a state licensed waterproofing contractor according to Polycoat Products guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of one (1) year. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer 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 that 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 users 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.