



# POLYCOAT PRODUCTS

A Division of American Polymers Corp.

## POLYGLAZE 400 Aliphatic Urethane Polyurea Topcoat

### DESCRIPTION

Polyglaze 400 is a polyester, aliphatic, single component, liquid applied, moisture cured, urethane polyurea surface topcoat for waterproofing membrane systems.

### FEATURES

- ❖ Very Durable
- ❖ Excellent Weatherability
- ❖ Seamless Waterproofing Membrane
- ❖ UV Resistant For Superior Gloss Retention
- ❖ Can Meet California AQMD Requirements

### TYPICAL USES

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

### COLOR

Clear, Stone Grey, Dolphin Grey, Battleship Grey, Tan, Indian Sand, White

Custom colors are also available. Minimum order of 100 gallons (380 liters). See color chart for special provisions.

### PACKAGING

- 1 gallon (3.78 liter) can
- 5 gallon (19 liter) pail
- 55 gallon drum, net fill 50 gallons (189 liters)

### MIXING

Before application, mix Polyglaze 400 using a mechanical mixer (Jiffy Mixer) at slow speeds until a homogeneous mixture and color is obtained. Polyglaze 400 may also be mixed by hand for at least five minutes. Use caution not to whip too much air into the material as this may result in pinhole blisters or shortened potlife.

### 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.

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.

#### TECHNICAL DATA, PG400-Clear, (DOES NOT MEET CALIF. VOC)

Coverage Rate	See Guide Specification
Dry Film Thickness, exclusive of aggregate, Per coat @ 1 gal/100 sq. ft.	10 ± 2 mils 254 ± 50 micron
Hardness, ASTM D-2240	95 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	500 ± 50 pli 87.6 ± 10 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, ASTM D-2369-81	2.78 lb/gal 334 gm/liter

#### TECHNICAL DATA, PG400-Pigmented, (DOES NOT MEET CALIF. VOC)

Coverage Rate	See Guide Specification
Dry Film Thickness, exclusive of aggregate, Per coat @ 1 gal/100 sq. ft.	10 ± 2 mils 254 ± 50 micron
Hardness, ASTM D-2240	95 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	500 ± 50 pli 87.6 ± 10 kN/m
Tensile Strength, ASTM D-412	3800 ± 300 psi 26.2 ± 2 MPa
Ultimate Elongation, ASTM D-412	250 ± 25%
Specific Gravity	1.14
Total Solids by Weight, ASTM D-2369	70.9%
Total Solids by Volume, ASTM D-2697	61.3%
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, PG400C-Pigmented, (MEETS CALIF. AQMD VOC)

Coverage Rate	See Guide Specification
Dry Film Thickness, exclusive of aggregate, Per coat @ 1 gal/100 sq. ft.	10 ± 2 mils 254 ± 50 micron
Hardness, ASTM D-2240	95 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	450 ± 50 pli 78.8 ± 10 kN/m
Tensile Strength, ASTM D-412	4000 ± 400 psi 27.6 ± 2.7 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 ± 1000 cps
Volatile Organic Compounds, ASTM D-2369-81 (with exempt solvent)	2.09 lb/gal 250 gm/liter

## **CURING**

At 70°F (21°C) and 50% relative humidity, allow each coat to cure a minimum of 16 and a maximum of 48 hours between each coat.

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. To accelerate cure Polyglaze Hardener may be used.

## **EQUIPMENT CLEANUP**

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

## **STORAGE**

Polyglaze 400 has a shelf life of six (6) months from date of manufacture in original, factory sealed containers.

## **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.

Regular primer cannot be used between coats of Polyglaze 400 Clear as it will discolor.

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

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***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 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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