



POLYCOAT PRODUCTS

A Division of American Polymers Corp.

POLYGLAZE 100 Aliphatic Urethane Polyurea Topcoat

DESCRIPTION

Polyglaze 100 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
- ❖ Plywood
- ❖ Some Types of Chemical Spills
- ❖ Re-sealing Existing Urethane Surfaces
- ❖ Most Metal, Wood, or Masonry Surfaces
- ❖ Vehicular Traffic
- ❖ Heavy Pedestrian 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 100 using a mechanical mixer (Jiffy Mixer) at slow speeds until a homogeneous mixture and color is obtained. Polyglaze 100 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 100 evenly over the entire deck. For best results, airless sprayer or phenolic resin core roller may be used but extra care should be taken not to cause air bubbles.

Polyglaze 100 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 100 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 100 Clear as a seal coat.

TECHNICAL DATA, PG100-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, PG100-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, PG100C-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±1000cps
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 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 100 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 100 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 100 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 100 Clear is considered Dangerous Goods. DOT regulations classify it as: **PAINT, Class 3, UN 1263, 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.

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