



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

POLYGLAZEAL-50
Aliphatic Urethane Topcoat

DESCRIPTION

Polyglaze AL-50 is an economical, aliphatic, single component, liquid applied, moisture cured, urethane surface protection coating.

FEATURES

- ❖ UV Stable
- ❖ Good Color Retention
- ❖ Excellent Weatherability
- ❖ For use in SCAQMD areas, use only Polyglaze AL-50SC

TYPICAL USES

- ❖ Pedestrian Traffic
- ❖ Concrete or Plywood Decks
- ❖ Resealing Existing Urethane Surfaces
- ❖ Most Metal, Rubber, Wood, or Masonry Surfaces

COLORS

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

Custom colors are also available. Minimum order of 100 gallons (379 liters). See color chart for special provisions.

Contact Polycoat Products for availability.

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 AL-50 using a mechanical mixer (Jiffy Mixer) at slow speeds or by hand for at least 5 minutes. Mix Polyglaze AL-50 thoroughly until a homogenous mixture and color is obtained.

APPLICATION

The first coat of Polyglaze AL-50 should be applied at the rate of 0.41 liters/square meter (1 gallon/100 square feet). For best results, airless sprayer or phenolic core roller may be used but extra care should be taken not to cause air bubbles. Apply Polyglaze AL-50 evenly over the entire deck resulting in 11 ± 2 dry mils (278 ± 50 microns). After 24 hours, proceed to the second coat.

Polyglaze AL-50 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 re-coating be done within 48 hours.

CURING

At 70°F (21°C) and 50% relative humidity, allow each coat to cure a minimum of 16 hours between each coat. If more than 48 hours passes between coats, re-prime the surface with Polyprime 21, 2180 or 172 before proceeding.

TECHNICAL DATA, Polyglaze AL-50 Pigmented, (250 VOC) (For Use In California Excluding SCAQMD Areas)

Coverage Rate	1 gal/100sq.ft. 0.41 l/m ²
Dry Film Thickness, exclusive as aggregate	
Per coat @ 1 gal/100 sq. ft	12 ± 2 mils 305 ± 50micron
Hardness, ASTM D-2240	90 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	400 ± 50 pli 70 ± 8.7 kNm
Tensile Strength, ASTM D-412	4200 ± 300 psi 29 ± 2 MPa
Ultimate Elongation, ASTM D-412	230 ± 50%
Specific Gravity	1.16
Total Solids by Weight, ASTM D-2369	80 ± 2%
Total Solids by Volume, ASTM D-2697	74 ± 2%
Viscosity at 24°C (75°F)	2500 ± 700 cps
Volatile Organic Compounds	
ASTM D-2369-81	1.875 lb/gal 225 gm/liter

TECHNICAL DATA, Polyglaze AL-50SC Pigmented, (100 VOC) (For Use in SCAQMD Areas)

Coverage Rate	1 gal/100sq.ft. 0.41 l/m ²
Dry Film Thickness, exclusive as aggregate	
Per coat @ 1 gal/100 sq. ft	12 ± 2 mils 305 ± 50micron
Hardness, ASTM D-2240	90 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	400 ± 50 pli 70 ± 8.7 kNm
Tensile Strength, ASTM D-412	4000 ± 300 psi 27.6 ± 2 MPa
Ultimate Elongation, ASTM D-412	250 ± 50%
Specific Gravity	1.20
Total Solids by Weight, ASTM D-2369	85 ± 2%
Total Solids by Volume, ASTM D-2697	83 ± 2%
Viscosity at 24°C (75°F)	3500 ± 700 cps
Volatile Organic Compounds	
ASTM D-2369-81	0.825 lb/gal 99 gm/liter

Allow 24 hours before permitting light pedestrian traffic and at least 72 hours before permitting heavy pedestrian or vehicular traffic on to the finished surface.

Uncured Polyglaze AL-50 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 AL-50 has a shelf life of one (1) year from date of manufacture in original, factory sealed containers.

LIMITATIONS

Surfaces must be dry, clean and free of foreign matter.
Surface may be slippery when wet.

Polyglaze AL-50 may become flat and stained over time.

Polyglaze AL-50 has limited chemical resistance properties.

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

Do not dilute under any circumstance.

Refer to general guidelines for more information.

WARNING

This product contains Isocyanates and Solvent.

Polyglaze AL-50 and AL-50SC are 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.

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.

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.