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 Ph: 1-800-474-7570, 1-602-272-8128 Fax: 1-602-272-8014
 Email: sales@bestmaterials.com www.bestmaterials.com

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

POLYGLAZE 400FR / 400C-FR / 400SC-FR
*Fire Rated Aliphatic
 Polyurethane Topcoat
 Technical Data Sheet*

DESCRIPTION

Polyglaze 400FR is an aliphatic, two component, liquid applied, moisture cured, polyurethane coating. Polyglaze 400C-FR is designed for use in most areas of California to be in compliance with air quality standards. Polyglaze 400SC-FR is designed for use in Southern California to be in compliance with SCAQMD air quality standards.

FEATURES

- ❖ Fire Retardant
- ❖ Durable
- ❖ UV Resistance For Gloss Retention
- ❖ For use in SCAQMD areas, use only Polyglaze 400SC-FR
- ❖ For use in California, excluding SCAQMD areas, use only Polyglaze 400C-FR

TYPICAL USES

- ❖ Concrete
- ❖ Heavy Pedestrian Traffic
- ❖ Plywood
- ❖ Vehicular Traffic

COLORS

For Polyglaze 400FR (340VOC): Tan

For Polyglaze 400C-FR (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-FR (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

6 gallon kit: One 6 gallon (22.7 liter) pail containing 1 gallon (3.78 liter) bag of Polyglaze 400 FR Part-1 Powder and One 5 gallon (18.9 liter) pail containing 5 gallons of Polyglaze 400 FR Part-2 Liquid.

MIXING

The volume mixing ratio is 1 part Polyglaze 400FR Part-1 Powder to 5 parts of Polyglaze 400 FR Part-2 Liquid.

Step 1: Mix the Polyglaze 400 Liquid 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.

Step 2: Remove plastic bag of Polyglaze 400 FR Part-1 Powder from the 6 gallon (22.68 liter) pail and set aside. Fill this empty container half full with the pre-mixed Polyglaze 400 FR Part-2 Liquid. Slowly add Polyglaze 400 FR Part-1 Powder, mixing with mechanical mixer. Ensure that all powder is transferred from the bag to the container. Continue mixing until no lumps are present, again being careful not to entrap air in the mixture.

TECHNICAL DATA (Based on draw down film) Polyglaze 400FR Pigmented (340 VOC) (For Use Outside of California)	
Coverage Rate	1¼ gal/100 sq.ft. 0.51 l/m ²
Dry Film Thickness per Coat	13 ± 2 mils 330 ± 50 microns
Hardness, ASTM D-2240	95 ± 5 Shore A
Specific Gravity	1.36
Total Solids by Weight, ASTM D-2369	79 ± 2%
Total Solids by Volume, ASTM D-2697	68 ± 2%
Viscosity at 75°F (24°C)	2400 ± 500 cps
Volatile Organic Compounds, ASTM D-2369-81	2.33 lb/gal 280 gm/liter

TECHNICAL DATA (Based on draw down film) Polyglaze 400C-FR Pigmented (250 VOC) (For Use In California Excluding SCAQMD Areas)	
Coverage Rate	1¼ gal/100 sq.ft. 0.51 l/m ²
Dry Film Thickness per Coat	13 ± 2 mils 330 ± 50 microns
Hardness, ASTM D-2240	95 ± 5 Shore A
Specific Gravity	1.42
Total Solids by Weight, ASTM D-2369	79 ± 2%
Total Solids by Volume, ASTM D-2697	71 ± 2%
Viscosity at 75°F (24°C)	2700 ± 500 cps
Volatile Organic Compounds, ASTM D-2369-81	1.67 lb/gal 200 gm/liter

TECHNICAL DATA (Based on draw down film) Polyglaze 400SC-FR Pigmented (100 VOC) (For Use in SCAQMD Areas)	
Coverage Rate	1¼ gal/100 sq.ft. 0.51 l/m ²
Dry Film Thickness per Coat	13 ± 2 mils 330 ± 50 microns
Hardness, ASTM D-2240	95 ± 5 Shore A
Specific Gravity	1.49
Total Solids by Weight, ASTM D-2369	82 ± 2%
Total Solids by Volume, ASTM D-2697	77 ± 2%
Viscosity at 75°F (24°C)	3500 ± 500 cps
Volatile Organic Compounds, ASTM D-2369-81	0.71 lb/gal 85 gm/liter

Step 3: When Polyglaze 400 FR Part-1 Powder has been thoroughly blended into Polyglaze 400 FR Part-2 Liquid add the rest of Polyglaze 400 FR Part-2 Liquid. Mix with mechanical mixer until uniform mixture is obtained. Mixed material must be used within 2-4 hours of mixing the two components.

APPLICATION

For best results, airless sprayer or phenolic resin core roller may be used but extra care should be taken not to cause air bubbles.

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. If more than 48 hours passes between coats, re-prime the surface with Polyprime 21 or 2180 before proceeding.

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

Uncured Polyglaze 400 FR 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 400FR Part-2 Liquid and mix thoroughly. This accelerated Polyglaze 400FR 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 FR has 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.

Surface may be slippery when wet.

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

Do not dilute under any circumstance.

Mix only materials that can be used within 2-4 hours.

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.

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 infringes 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 user's 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.

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