POLYGLASS® TECNOCOAT P-2049

TWO-COMPONENT, FAST-SETTING, SPRAY-APPLIED POLYUREA MEMBRANE DESIGNED FOR SUPERIOR WATERPROOFING AND TRAFFIC COATING APPLICATIONS

PRODUCT DESCRIPTION

Engineered for durability and integrity under mechanical stress, it offers exceptional chemical resistance and elasticity, even in extreme conditions. Its seamless and fully bonded, spray-on application ensures rapid curing, creating a monolithic membrane ideal for a variety of surfaces and industries.

FEATURES AND BENEFITS

- 80 mils
- Tack free time 12 seconds
- Foot trafficable in minutes
- Easy to repair
- Low VOCs
- System application 40°F and rising
- Coverage @ 80 mils WFT 20 ft^2/gallon (2160 ft^2/kit)
- Adheres to a wide variety of substrates
- Can be used in exposed applications with approved Tecnocoat top coats
- Spray-applied

TECHNICAL DESCRIPTION

Property	Test Method	Typical Result
Tensile strength	ASTM D412	3,650 psi
Elongation at break	ASTM D412	650 %
Hardness	ASTM D2240	99
Tear strength	ASTM D624	580 pli
Water vapor transmission	ASTM E96	0.18 g/m^2/day
Taber abrasion	ASTM D4060	105 mg
Crack Bridging	ASTM C1305	Pass
Heat aged extension	ASTM C1522	Pass
Liquid Applied Waterproofing	ASTM C836	Pass
Adhesion to Concrete	ASTM D4541	460 psi
Adhesion to Steel	ASTM D4541	320 psi
Tack free time		12 seconds
Solids %		100
VOC Content		0
Mix Ratio		1:1
Diffusion coeffiecient to Radon	ISO 11665-13	4×10^{-12} m^2/sec
Diffusion resistance to Ozone	ISO 1431-1	Pass

SYSTEM COMPONENTS

- 2 component primers: Primer EP-1010, Primer EP-1020, Primer PU-1050
- Top Coats: Tecnotop 1C, Tecnotop 2C, Tecnotop S-3000

PRODUCT DATA

Minimum thickness..... 80 mils
Application method..... Spray equipment

WHERE TO USE

- Sloped/flat walkable roofs
- IRMA
- Concrete decks
- Balconies
- Water containment/Potable water
- Parking garages
- Foundations

PACKAGING

Metallic drum kit (450 kg):
Part A (isocyanate) 225 kg (53.6 gal)
Part B (amine) 225 kg (54.5 gal)

Metallic drum kit (120 kg):
Part A (isocyanate) 60 kg (14.3 gal)
Part B (amine) 60 kg (14.5 gal)

PRODUCT CODES

- 4TF9999979UPY Part A 225 kg
- 4TF093079UPY Part B 225 kg
- 4TF9999976UPY Part A 60 kg
- 4TF1539176UPY Part B 60 kg
- 4TK9999979UPY Part A (P-2049HR) 225 kg
- 4TK1539179UPY Part B (P-2049GR) 225 kg

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STORAGE AND SHELF LIFE

12 months shelf life if stored in original containers in a dry environment at a temperature between 40°F–95°F. Keep away from direct sunlight, extreme heat, cold or moisture.

LIMITATIONS

Not intended for permanent UV exposure, can be left exposed for 180 days prior to placing overburden.

SURFACE PREPARATION

Concrete substrates must be allowed to cure for 28 days. All laitance, surface/release treatments, or other contaminants must be removed. Concrete must have a ICRI surface profile of 3–5, which is typically best accomplished by mechanical preparation.

APPLICATION

PRIMING

Concrete must have a moisture concrete of less than 5% prior to applying the applicable system primer.

Choose the appliable primer for the substrate and temperature (Primer EP-1010, Primer EP-1020, Primer PU-1050 or Primer PUc-1050), refer to the Technical Data Sheet(s) for complete application instructions.

SPRAY EQUIPMENT & TEMPERATURE

High pressure plural component proportioners intended for Polyurea must be used for a successful application. The components of the Tecnocoat P-2049 are designed as a 1:1 mixing ratio by volume which must be always maintained. Consult Polyglass Technical Services for additional information on spray equipment.

General parameters for material temperatures are as follows:

- Part A – Isocyanate (158°F–167°F)
- Part B – Amine (158°F–167°F)
- Hose temperature 158°
- Working pressure 2500–3000 psi

The Part B must be thoroughly mixed with an air driven mixer before inserting transfer pumps. Both parts A & B should be circulated back into drums for 30 minutes when starting application for the day to ensure the required temperatures are reached.

Both Parts A & B are sensitive to moisture, ensure the drums and spray equipment are protected from moisture during storage and application.

Substrate temperature for the spray application must be a minimum of 35°F. The substrate temperature must also be a minimum of 5°F above the dewpoint and rising. Care must be taken when installing in high humidity and the dewpoint should be measured often. Applications where the relative humidity is at or above 95% are not recommended. Consult Polyglass Technical Services for installations below 35°F.

SPRAY APPLICATION

Apply Tecnocoat P-2049 with cross-hatching spray techniques to achieve a monolithic minimum 80 mils. Detail areas will receive an additional 40 mil pre-treatment for a total of 120 mils per standard details. Tecnocoat P-2049 must be applied to primed substrates after the primer has cured but not more than 24 hours after the application of the primer. If the Tecnocoat P-2049 cannot be sprayed within 24 hours of the primer application, the existing primer will need to be re-primed and allowed to cure before the Tecnocoat P-2049 application. Ensure the spray application does not extend beyond the primed substrate.

For pedestrian, vehicular, or other applications where the Tecnocoat P-2049 will be covered with an aliphatic Tecnotop top coat, ensure the top coat is applied within 24 hours of the Tecnocoat P-2049 application. Refer to applicable Tecnotop Technical Data Sheet and details for complete application instructions.

MEMBRANE REPAIR

Remove any damaged membrane from the area and mechanically abrade approximately 6 inches of the undamaged Tecnocoat P-2049, clean area after abrading with Xylene or MEK and apply Tecnocoat P-2049 to the minimum thickness of 80 mils.

MEMBRANE LAPS

If the recoat time of 24 hours has passed, the following procedure must be followed to overlap new Tecnocoat P-2049 onto existing Tecnocoat P-2049. Mechanically abrade approximately 6 inches of the existing Tecnocoat P-2049, clean area after abrading with Xylene or MEK and apply Tecnocoat P-2049 to the minimum thickness of 80 mils.

CLEANING

- Store and clean proportioner by manufacturer's suggested guidelines.
- Tools can be cleaned with Xylene or MEK

HEALTH AND SAFETY

- Respiratory Protection: When handling or spraying use an air-purifying respirator.
- Skin protection: Use rubber gloves, remove immediately after contamination. Wear clean body-covering. Wash thoroughly with soap and water after work and before eating, drinking, or smoking.
- Eye/Face: Wear safety goggles to prevent splashing and exposure to particles in the air.
- Dispose waste in accordance with federal, state, and local regulations.

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CORPORATE HEADQUARTERS

Polyglass U.S.A., Inc.
1111 West Newport Center Drive
Deerfield Beach, FL 33442
www.polyglass.us
General Line: (888) 410-1375
(954) 233-1330
Customer Service: (800) 222-9782
Technical Service: (866) 794-9659

Questions? technical@polyglass.com

Product Disclaimer:

For professional use only.

Unless otherwise incorporated into or part of a supplemental manufacturer's warranty, Polyglass warrants its product(s) against manufacturing defects in its product that directly results in leakage for a period of 1 year. Refer to safety data sheet (SDS) for specific data and handling of our products. All data furnished refers to standard production and is given in good faith within the applicable manufacturing and testing tolerances. Polyglass U.S.A., Inc., reserves the right to improve and change its products at any time without prior notice. Polyglass U.S.A., Inc. cannot be held responsible for the use of its products under conditions beyond its own control. For most current product data, detail drawings and warranty information, visit www.polyglass.us

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