BIOTHANE™

ProREZ™
Performance Resins and Coatings
ProREZ Coatings, LLC
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TECHNICAL DATA SHEET

DESCRIPTION

BioThane is a high solids, low odor, zero VOC, 2-component, plant oil-based polyurethane primer and basecoat system. This coating made from a rapidly renewable resource provides exceptional adhesion to a variety of prepared substrates and performs well as a broadcast coat for media like natural or ceramic quartz and polymer flake. **BioThane** cures rapidly and consistently at a **2:1 mix ratio** in applications ranging from 45°F-90°F, with a recoat-ready cure of ~2-3 hours.

FEATURES & BENEFITS

- Ultra-High Solids, Zero VOCs
- Rapidly Renewable Resource
- Meets USDA and FDA Requirements
- Recoat Ready in ~2-3 Hours
- Cures from 40°F to 90°F
- Tenacious Substrate Bonding
- Versatile Primer and Broadcast Coat
- Good Chemical Resistance
- On-Site Pigmenting

TYPICAL USES

BioThane is an economical, plant-based, versatile polyurethane coating system designed for tenacious bonding and fast-setting to allow for multiple applications in a single mobilization. This product is typically used as a primer coat for **ProRez ProKrete SL** and **ProSpartic** systems. It also serves as an excellent intermediate coat for broadcasted applications.

- 1-Day Garage Applications
- Apparatus & Service Bays
- Manufacturing
- Food & Beverage Processing
- Commercial Kitchens
- Hospitals
- Schools

PHYSICAL PROPERTIES	
Viscosity (Mixed)	350 cps (average)
Hardness (Shore D) (ASTM D2240)	70D
Mix Ratio	2 parts Resin:1 part Hardener
Pot Life (100 gms @ 70°F)	10-12 minutes
Tack Free, Thin Film (@70°F)	2-3 hours
Recoat Ready (@70°F)	2-3 hours
Tensile Elongation (ASTM D-638)	6-8%
Tensile Strength (ASTM D-638)	3800 psi
Adhesion to Concrete (ASTM D-4541)	>400 psi, substrate fails

Note on Technical Data: Test data shown for physical properties are typical values obtained under laboratory conditions. Some variations could result under dynamic conditions in the field such as temperature, humidity and type or condition of substrate. Complies with LEED IEQ Credit 4.1. Once cured, this product is inert (chemically inactive) so it is safe to discard and is safe to use in areas subject to inspection for food safety.

COLORS

See "Color Guide"

PACKAGING

- 5 gallon white pail – Resin
- 5 gallon black pail – Hardener
- 1 gallon white pail – Resin
- 1 gallon black pail – Hardener

STORAGE

Materials should be stored indoors between 60°F (16°C) and 90°F (32°C).

SHELF LIFE

One (1) year from date of manufacture.

LIMITATIONS

- This product is best suited for dry applications in temperatures between 45°F and 85°F. Some micro-foaming and gassing will occur in the presence of moisture on the surface.
- ***DON'T ADD ANY SOLVENTS.***
- For newly poured concrete, **BioThane** should not be installed prior to **30 days** to ensure strong bonding. **CHECK FOR MOISTURE:** Concrete moisture testing must occur. Calcium chloride testing or in-situ relative humidity testing is recommended. Test methods can be purchased at www.astm.org, see ASTM F1869-11 or F2170-19a, respectively or follow manufacturer's instructions. Readings must be below 12 lbs/1,000 s.f./ 24 hrs (ASTM F1869-11) or 82% internal relative humidity (F2170-11).
- Material provided in pails should be thoroughly mixed to redistribute any settlement that may have occurred during shipping or storage.
- Do not mix more material than can be applied within 10-12 minutes.

SURFACE PREPARATION

The application area must be completely free of sealers, oils, dirt, laitance, paint, alkali, or any other prospective contaminant that might prevent the **BioThane** from wetting and penetrating the substrate surface. The recommended substrate should have a minimum concrete surface profile (CSP) of 2-6 in accordance to the ICRI Guideline No. 03732. Contact ICRI at www.ICRI.org for more information on these surface profiles. Surface area must be clean and dry prior to the application of the **BioThane** material.

MIXING

Both components should be conditioned to a minimum of 50ºF prior to use. Thoroughly mix each component separately before combining. Pour the resin and hardener components together into a clean, dry container and power mix at 500-700 rpm for a minimum of 1 minute. Do not entrain air into the mixing. Do not mix more material than can be applied in 10-15 minutes.

PRODUCTS GUIDE

1. **BioThane Resin** is a plant-based polyurethane designed for more rapid recoats. With its low viscosity, it can be easily applied as a primer and broadcast coat when combined at **2 parts BioThane Resin to 1 part BioThane Hardener.**
2. **BioThane Hardener** cures rapidly and consistently when mixed at **1part hardener to 2 parts resin**.

COVERAGE RATE

A gallon of **BioThane** will cover in the following manner, with a *standard spread rate: 6-12 mils or 133-267 s.f. per gallon. *Application of primer and broadcast coats are variable in thickness depending upon condition of substrate and type of system.

RECOATING

Allow **BioThane** to set 2-3 hours or until tack-free before recoating.

CLEAN-UP

Spills of unmixed components should be cleaned up quickly with solvents such as Acetone, Xylene, etc. Cured material may be stripped or peeled from tools and containers once cured.

DISPOSAL

Dispose in accordance with federal, state and local regulations.

TECHNICAL SUPPORT

For any application questions, please call **ProREZ Coatings** technical support at **877.511.3456**.

SDS

PLEASE SEE SAFETY DATA SHEET (SDS) FOR SAFETY AND PRECAUTIONS. USE PRODUCT AS DIRECTED. **KEEP OUT OF THE REACH OF CHILDREN.**