

PROTHANE™ WB



Performance Resins and Coatings

ProREZ Coatings, LLC

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TECHNICAL DATA SHEET



DESCRIPTION

Prothane WB is a single component UV Stable, waterborne polyurethane available in a Semi Gloss, Satin, or Matte finish. Based on a "state of the art" self-crosslinking mechanism, this unique chemistry provides abrasion resistance performance on par with a 2k, moisture cured urethane and higher build thickness per application than other water based urethane coatings & sealers.

Prothane WB can be applied directly to concrete, without darkening the surface, for unparalleled performance versus other "Grind & Seal" applications. **Prothane WB** can also be used for Safety Line Striping and as a final topcoat over decorative systems where a low-odor, fast curing, without compromising performance is required. Can be pigmented with **ProREZ ProColor WB** colorant. (Refer to color chart.)

FEATURES & BENEFITS

- ♦ UV Stable
- ♦ Excellent Gloss and Color Retention
- ♦ Very Low Odor
- ♦ Fast Dry
- ♦ Does Not Darken the Concrete for Grind & Seal Applications
- ♦ Abrasion Resistance Comparable with Moisture Cured 2k Urethanes
- ♦ Resistant to "Hot Tire Pickup"
- ♦ Excellent Chemical Resistance
- ♦ High Solids
- ♦ 50 g/L for Better Air Quality

COLORS

9 Standard Colors – See "Color Guide"

TYPICAL USES

- ♦ Grind & Seal
- ♦ Warehouses
- ♦ Laboratories
- ♦ Hospitals
- ♦ Commercial/Retail
- ♦ Restaurant (Front of House)
- ♦ Schools
- ♦ Safety Lines

PACKAGING

- ♦ 1 Gallon – white pail
- ♦ 5 Gallon – white pail

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 application in temperatures between 60°F and 90°F. Do not freeze.

OPTIONAL

ProGrip (non-skid)

ProWear (wear resistance)

ProColor WB (on-site pigmentation)

PRODUCT COVERAGE & MIXING GUIDE

Always premix **Prothane WB** single component with a slow speed drill and dispersion blade, to ensure the product is uniform in consistency.

Prothane WB will not cure fully if left in "volume" it is designed as a thin mil coating/sealer.

Do not apply **Prothane WB** if humidity is greater than 90% RH.

Mix for 1-2 minutes with a low speed electric drill and jiffy mixer, do not mix at high speed or bubbling of the applied film may result. Working life is 2-3 hours at 75°F. Pour mixed material into a paint pan, apply with 3/8" quality nap roller using "dip and roll" method or synthetic microfiber pad technique at a spread rate of 300-600 ft²/gallon depending on porosity of substrate.

Optional: To help aid in flow and leveling of the product, 4-6 oz. of clean water may be added to each gallon.

IMPORTANT: Do not apply thicker than 300 ft²/gallon or cure problems may result. Maintain a wet applicator/pad, do not let it run dry or streaks may result. Maintain a "wet edge" on the floor at all times — this may be 5 minutes or less depending on environmental conditions, terminate work at joint edges, taped borders, etc. Recoat time is approximately 1 hour at 75°F and 50% RH, variable depending on applied thickness and air movement. Good air movement and humidity control are necessary for proper drying with water based sealers. Apply two or more coats or as required to achieve desired finish.

Coverage will vary due to ambient temperature, surface temperature, surface porosity, and/or application methods. Do not apply if surface temperature is below 50°F. Avoid pooling and application to exterior areas that are subject to rain or ponding water. A single coat will seal the substrate to minimize staining while producing a "patina" like finish. Subsequent coats will create a surface film with a higher sheen. Care should be taken to minimize the entrapment of air caused by over-rolling. Two or more coats are recommended for sealing applications.

♦ **ProWear** additive is available for enhanced abrasion and wear resistance in the **Prothane WB** finish coat. NOT to be used in WET areas. One (1) pint can per 1 mixed gallon.

♦ **ProGrip** additive can be included for enhanced non-slip resistance. 2-4 oz. per gallon of liquid.

CLEANING GUIDELINES & MAINTENANCE

Allow floor coating to cure at least 3 days before cleaning by mechanical means (e.g., sweeper, scrubber, disc machine).

CARE

Proper maintenance will increase the service life and help maintain the appearance of your new **ProREZ** floor coating system. This product is considered to be a low maintenance coating system, however, certain textures and service environments require specific procedures. SEE "CLEANING GUIDELINES" for more information.

CAUTION

Avoid scratching or gouging the surface. All floor coatings will scratch if heavy or sharp objects are dragged across the surface.

Do not drop heavy or pointed items on the floor as this may cause chipping or concrete pop-outs in the case of a weak substrate cap.

Rubber tires can permanently stain the floor coating from plasticizer migration. In warehouse & industrial settings, the use of non-marking tires is highly recommended to prevent discoloration. Rubber burns from quick stops and starts can heat the coating to its softening temperature, causing permanent marking.

REPAIRS

Repair gouges or scratches or chip outs as soon as possible to prevent moisture or chemical contamination.

DISPOSAL

Dispose in accordance with federal, state and local regulations.

TECHNICAL SUPPORT

For any application questions, please call ProREZ 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.**

PHYSICAL CHARACTERISTICS	
Percentage Solids by Weight	52%
Volatile Organic Compound (weight %)	0.63 (DMEA)
Finish	Semi Gloss/Satin/Matte
Recommended Spread Rate (per coat)	Wet Mils: 4-8 mils Dry Mils: 2-4 mils
Coverage Rate	300-400 (wet mils)
Cure Time, Tack-Free at 70°F, 50% Relative Humidity	To Touch: 45 Minutes Foot Traffic: 4 Hours Heavy Traffic: 36 Hours Full Chemical Cure: 4 Days
Recoat Window (self)	Minimum: 1 Hour Maximum: 48 Hours

PHYSICAL PROPERTY	TEST METHOD	RESULT
Abrasion Resistance	ASTM D-4060	4 mg loss
Adhesion	ASTM D-4541	400 psi, concrete failure
Impact Resistance	ASTM D-2794	>160 in/lb
Hot Tire Pickup	ITM @ 140°F	Passes
Pencil Hardness	ASTM D-3363	2H

Caution: Protect from freezing.

Warranties: Seller warrants that its goods, as described on the face hereof, are free from any defects in material or workmanship. Seller makes no other warranty, express or implied, and all implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Seller shall not be liable for prospective profits or special indirect or consequential damages. Seller's sole liability and buyer's exclusive remedy for breach of any warranty as expressly limited, at seller's option, to replacement at the original F.O.B. point or refund of purchase price. Seller shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended and in accordance with instruction provided for use of product. Any claim for breach of warranty shall be deemed waived unless buyer shall give seller written notice of such claim within sixty (60) days after delivery and shall allow seller reasonable opportunity to investigate claim and inspect product.