



## **PRODUCT DESCRIPTION**

Rockhard WB Urethane is a 2 component high water based urethane designed to provide high gloss, UV stable (non-yellowing), low odor, high abrasion resistance and chemical resistant protection. It is a superior, new generation product exhibiting an excellent balance of pot life, cure time, recoat ability, return to service and chemical resistance. It has a very low odor and can be applied indoors in occupied areas. It functions as a clear or pigmented finish for resinous decorative and industrial flooring and can be supplied in a variety of gloss levels.

## **ADVANTAGES AND BENEFITS**

- Very Low odor
- Excellent pot life
- VOC compliant
- ADA compliant (slip coefficient >0.6)
- Excellent adhesion
- Extraordinary chemical resistance
- Easy Maintenance
- Wide range of finish glosses from flat to high gloss

## **LIMITATIONS**

Not recommended for use over wet or damp substrates. Avoid applications with active moisture vapor transmission. It is best suited for application in temperatures between 50° F to 85° F. Substrate must be clean, sound and dry.

## **SUBSTRATE REQUIREMENTS**

Site must be free of dirt, waxes, curing agents, or other foreign agents and free from condensation or water contamination during application and cure. Diamond grinding is recommended. All control joints and expansion joints must be revealed with the appropriate divider strips in the new surface. Relative humidity should be < 60% for optimal pot life and cure schedule. Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared. Work must be performed by trained or experienced contractors or maintenance personnel. Important: Refer to detailed mixing and installation instructions document. Rockhard WB Urethane is a two component material (4 parts A to 1 part B by Volume). Add Part B to Part A while mixing, using a slow speed mechanical mixer (Jiffy mixer). Mix until a homogeneous mixture is obtained (approximately 2 minutes). Use care to scrape sides and bottom of container to ensure that no unmixed material remains. Do not whip too much air into the material which may result in pinholes or blisters. Do not mix more material than can be used in 60 minutes at 75° F (working time will be reduced at higher temperatures levels. After mixing, pour material into a paint pan and apply with a 3/8" nap, high quality, lint-free roller using "dip and roll" procedure. Alternatively, another application method is to pour material on floor in a ribbon and spread with a flat trowel or notched squeegee depending on thickness of application. Typical application is 3-4 mils (400-500 ft<sup>2</sup> /gallon)





Immediately back roll spread material gently with a 3/8 nap roller. Do not over roll and entrap air. Allow resin to cure tack-free if applying more than one coat. Light pedestrian traffic is possible after 24 hours, 48 hours for wheeled carts or cleaning with liquids, 72 hours for vehicle traffic. In general, thicker applications will require longer cure time before exposing to heavy traffic. Rockhard WB Urethane is highly stain resistant and hot tire resistant after 4 days.

## CLEAN-UP

Clean skin with soap and water. Tools and equipment should be cleaned with water immediately after use.

## COVERAGE

Rockhard WB Urethane is typically spread at 400-500 ft<sup>2</sup> /gallon to yield 1.4-2 mils. Up to 3 mils is possible in one application but will exhibit a longer cure time to develop full hardness required for heavy traffic. Do not exceed 4 mils or micro bubbles may form, resulting in a white haze.

## TECHNICAL DATA

Viscosity @ 75 F 200-500 cps  
Mixing Ratio 4 Parts A to 1 Part B by Volume  
Solids Content 40-42% by Volume  
Volatile Organic Content <85 g/L  
Weight per gallon 8.77 lbs

## CURE/DRY TIME

Pot Life (Working time) 75°F, 50% RH	60-90 minutes
Dry to Touch 75°F, 40% RH	2-4 hours
Re-Coat, Minimum	2-4 hours
Re-Coat, Maximum (*Sanding required if exceeded)	24 hours
Light Foot Traffic	24-36 hours
Heavy Traffic* (*Varies by thickness, type of traffic)	72 hours

## TYPICAL PHYSICAL PROPERTIES

Hardness - ASTM-D-3363	5H
Tensile Strength (psi) ASTM-D-412	3,000-4,000
Elongation (%) ASTM-D-412	15 max
Abrasion Resistance ASTM D-4060 (CS-17 Wheel)	<20 mg

## CHEMICAL RESISTANCE

Chemical	RATING
Acetic Acid-10%, 30%	L
Iodine*	L
Acetone	L
Isopropanol	R
Ammonia Hydroxide-38%	R





Chemical (cont'd)	RATING (cont'd)
Lactic Acid-15%*	R
Beer R Lactic Acid-50%*	R
Betadine*	R
Methyl Ethyl Ketone	L
Bleach-10% *	L
Nitric Acid-10%*	L
Citric Acid-30%, 40%	R, L
Phosphoric Acid-85%	L
Clorox	R
Crude Oil	R
Skydrol	R
Diesel Fuel	R
Sodium Hydroxide-50%	L
Ethanol	L
1 hour Ethyl Acetate	L
4 hours Ethylene Glycol	R
Sulfuric Acid-20%	R
Toluene	L
Gasoline	R
Urea	R
Hydrochloric Acid-10%	R
Vinegar*	L
Hydrogen Peroxide-30%	L
Xylene	L

R - Recommended for prolonged exposure to spills. L - Limited recommendation for 2 hours or less exposure requires more frequent cleanup, occasional spills only. \* - May cause slight stain or discoloration. Rockhard WB Urethane is easily cleaned with neutral soaps or detergents.

### **STORAGE/INVENTORY OF OPENED UNITS**

Materials should be stored indoors in an environmentally controlled space and out of direct sunlight. Shelf life is 6 months in the original unopened containers. Important note: Opened units absorb moisture from the air, causing material to become more reactive over time with a reduced working time. This may also cause a darkening of the resin, which will affect the appearance of clear and pigmented resin when used at a future time. It is recommended to keep inventory of previously opened split units to a minimum. Inspect stored split units before use.

### **PACKAGING AND STORAGE**

Rockhard WB Urethane is provided in pre-measured kits that include an A side of 4 gl in a 5 gl pail and 1 gl of B side. Kits should be stored in a clean, dry area in stable temperatures approximating 50° to 85° F.





## **Health and Safety**

Read carefully and follow Material Safety Data Sheets and application instructions for the Rockhard WB Urethane flooring system prior to use. Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment and clothing to use when handling this product. Use only as directed.

