

## Polyurea RBC

Polyurea RBC (Rollable Basecoat) is a 100% solids, ZERO VOC, rollable polyurea basecoat. It allows the user a 15-20 minutes of working time on the floor, an extended pot life of 35-45 minutes, and a rapid dry time of 45-75 minutes once applied at 8-12 mils. One single coat functions as a basecoat and primer for quartz or chip broadcast flooring systems.

### APPLICATIONS

- Hospital and Health Care Facility Floors
- Auto Showrooms
- Chemical Plants
- Educational and Institutional Floors
- Interior or Exterior Applications
- Manufacturing Facilities
- Residential, Commercial and Industrial Floors

### PRODUCT ADVANTAGES

- 1:1 System by volume
- Extended Working Time with Rapid set times
- Low odor
- Meets USDA Approvals
- ZERO VOC

\*Values given are not intended to be used in specific preparation

#### Component Properties

Color - ISO	Amber
Color - POL	See Isotec color chart

Mixed Viscosity - ASTM D-2196 - (74°F) 800 - 2000 cps

% Solids - by Volume 100 %

#### Reactivity Profile

Ratio by Volume - ISO:POL 1 - 1

Pot Life - 100g 30 - 45 Minutes

Tack Free Time 45 - 75 Minutes

Full Cure 2 - 3 Days

Return to Service - Foot Traffic 4 - 8 Hours

Recoat Window 1 - 18 Hours

Working Time 15 - 20 Minutes

#### Typical Physical Properties

Adhesion - ASTM D4541 - Elcometer 500+ psi

Hardness - ASTM D2240 - Shore D 50 - 55 D

Tear Strength - ASTM D624, Die C 250 - 350 pli

Tensile Strength - ASTM D412 1500 - 2500 psi

Elongation - ASTM D412 30 - 50 %

VOC 0 g/L

Recommended Film Thickness 6 - 12 mils

### RECOMMENDED HANDLING INSTRUCTIONS

• **COVERAGE:** The approximate coverage is 1 gallon/155-165 square feet (10 mils). Coverage rate may vary if applied direct to porous concrete.

• **PACKAGING:**  
This product is available in 2 gallon kits, 10 gallon kits, and 100 gallon kits.

• **PRODUCT MIXING:**  
This product has a 1:1 mix ratio, or one parts A ISO (Activator) to one part B Poly (Resin) by volume. Packaging is in pre-measured kits and should be mixed as supplied in the kit. After parts A & B are combined, mix well with slow speed mixing equipment such as a jiffy mixer to mix the material thoroughly for 2-3 minutes until it is well mixed and streak free. Do not over mix or lift mixer in an up and down motion while mixing. This can cause air entrapment resulting in bubbles in the coating. The material is now ready to be applied on a properly prepared substrate. This product reacts quickly, so only mix that which can be used in the prescribed pot life. See the cure schedule section of this data sheet. Improper mixing may result in product failure.

• **PRODUCT THINNING**

This material may be thinned up to 10% with dry acetone or xylene.

- **PRIMING:**

This product is self priming and shows great adhesion to well prepared concrete. A minimum of 2 coats should be applied in order to achieve a monolithic surface, 3+ coats may be required if the concrete is porous.

- **PRODUCT APPLICATION:**

The mixed material can be applied by brush, roller, or serrated squeegee and back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process.

- **RECOAT OR TOPCOATING:**

Prior to recoating, you must first be sure that the coating has tacked off before recoating. However, if the recoat window has passed, previous coats should be de-glossed by sanding to insure a better mechanical bond prior to application of topcoats. An aliphatic topcoat is recommended if the area of application receives significant UV exposure.

- **RESTRICTIONS:**

Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

- **LIMITATIONS:**

Color or gloss may be affected by environmental conditions like humidity, temperatures, chemicals or lighting such as sodium vapor lights.

Check the lot number on the container and only use product from the same lot for an entire job.

Because of the short pot life and dry time, attention should be given to the trim work and tie-in areas to keep a wet edge so as to avoid roller marks, differences in color or shading problems.

Substrate temperature must be a minimum of 35°F

Physical properties are typical values.

## **STORAGE**

**PRODUCT STORAGE:** Store product at normal room temperature before using. Continuous storage should be between 60°F and 90°F. Low temperatures or temperature fluctuations may cause crystallization.

**SHELF LIFE:** 1 Year in unopened containers

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## **SAFETY**

Refer to the product SDS for all relevant safety information.

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Date Modified

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Since Seller exercises no control over Buyers application or use of the product manufactured by Seller ("product") and since materials used with the product may vary, it is understood that:

- THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OR MECHANABILITY OR FOR ANY PARTICULAR PURPOSE. While all data presented in Seller's technical data sheet is based on the best information available to Seller and believed correct, such data is not to be construed as a warranty that the product will conform to such specifications. Such technical data sheets are subject to change without notice. Reported laboratory test results of fire redundancy in no way relates to the actual performance under fire conditions. Since all urethane systems are organic, they will burn.
- Reported laboratory test results of the color stability in no way relates to the actual performance upon exposure to light sources. Since all aromatic urethanes experience color degradation upon ultraviolet light exposure, Seller shall not be liable for any damages resulting from ultraviolet light color degradation of any aromatic urethane systems manufactured or sold by Seller.
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