

Clear Water Based Epoxy

RTE-WBE Clear

Description

WB Epoxy Clear is a two-component waterborne epoxy used in a variety of applications. It has a long pot life of 3 hours and is usually tack free within 1 – 2 hours. Due to the water permeability and moisture insensitive properties of WB Epoxy Clear, it can be applied over damp surfaces, although all standing water should be removed, and the top surface allowed to dry. Moisture vapor testing of the surface is recommended before applying WB Epoxy Clear.

Typical Uses

- **As a primer** - WB Epoxy Clear works great as a primer for Epoxies, Urethanes and Spray Top applications. WB Epoxy Clear is typically applied at 300 – 400 sq. ft. per gallon. It is also an excellent primer over wood decks before applying a water proofing system. Wood decks that don't need metal lath should be sealed with WB Epoxy Clear prior to applying an Elastomeric Basecoat and Fabric Waterproofing System. While the WB Epoxy Clear is still wet, sprinkle some #60 silica sand over it to achieve a medium broadcast. Apply the Elastomeric Basecoat and fabric over the WB Epoxy Clear when dry to touch, within 4 – 6 hours. See the Elastomeric Basecoat Technical Data Sheet for more information on waterproofing wood decks.
- **As a sealer** - WB Epoxy Clear is used as a cost-effective sealer for dust proofing concrete floors and walls providing a durable, easy to clean surface and is also used as an economical sealer/primer on residential and commercial garage floors, warehouse floors, parking garages, commercial kitchens and bathrooms, hospital floors and many other applications. Apply two coats of WB Epoxy Clear at 300 – 400 sq. ft. per gallon each coat. For applications that need UV stability, Urethanes are recommended.

Features & Benefits

- Long working time of 3 hours and quick dry to touch
- Can be applied by roller, brush, squeegee, or airless spray
- Can be applied over damp surfaces
- Easy to use
- Economical coating

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Chemical Properties*

Test	Result
Specific Weight, lb/gal	9.0 (Part A – resin) : 8.5 (Part B – hardener)
Mixed Viscosity, cps	150-350
Solids by Volume	65%
Volatile Organic Compounds	0.63 lb/gal (75 g/l)
Mix Ratio by Volume	4A (resin) : 1B (hardener)
Pot Life	3 hours
Recoat, min/max	4-6 hours / 18-24 hours
Tack-Free	1-2 hours
Walk on Time (light foot traffic)	8-10 hours (dependent on temp. & humidity)
Return to Service Time (vehicle traffic)	72 hrs
Full Cure	7 days
Coverage Rate per Gallon	300 – 400 sq ft at 2 – 3 mils DFT
Recommended Temperature Application	≥50°F (10°C)
Odor	mild
Color	clear
Shelf Life - Unopened Containers	12 months

*Properties were tested at 77°F (25°C).

Typical Physical Properties*

Test	Results
Adhesion -Crosshatch	ASTM D-3363 5

Hardness: -pencil (7 days)	ASTM D-3363 H
Direct Impact Resistance (lbs)	ASTM D-2794 60
Reverse Impact Resistance (lbs)	ASTM D-2794 20
Mandrel Bend, 1/4-inch mandrel	ASTM D-522 Pass
60° Gloss	90

*Properties were checked on dry films at 5 – 6 mils thick, air dried for 7 days.

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Moisture Vapor Testing

All concrete floors not poured over a proper moisture barrier are subject to possible moisture vapor transmission or hydrostatic pressure problems which can cause a coating system to blister or fail. Before applying a coating system over a concrete floor which is on-grade or below grade, the customer should be informed of this potential problem and given the option to have a qualified moisture testing company perform calcium chloride test to give the proper recommendations.

Surface Preparation

The surface must be clean and sound, free from oil, dirt, waxes, and any other contaminants that may interfere with bonding. Some surface preparation methods include shot-blasting and scrubbing with detergent or acid washing, neutralizing, and rinsing. Existing coating materials should be removed, or if in good condition sanded with 80 – 100 grit sandpaper, to lightly scratch and dull the surface. Going over existing coatings is up to the discretion of the applicator. It is not recommended to apply over concrete with curing or sealing membranes.

Mixing Instructions

The mixing ratio of WB Epoxy Clear is 4 parts A (resin) to 1 part B (hardener). Mix only the amount that can be used within 2 hours. Mix part A and B together using a low-speed drill motor and mixing paddle for 3 – 5 minutes scraping the sides and bottom of the container. If desired, water can be added up to 25% when going over uncoated surfaces or 10% when going over previously coated surfaces. Once water is added, mix again for 1– 2 minutes.

IMPORTANT: Allow the mixed material to sit for 10 – 15 minutes induction time prior to application. DO NOT use mixed material beyond 3 hours from the mixing time even though the WB Epoxy Clear appears unchanged.

Application Instructions

WB Epoxy Clear can be applied by roller, brush, or squeegee. When using a squeegee, it is best to follow immediately behind with a 1/4" – 3/8" nap paint roller to even out any squeegee marks. Apply thin to achieve a coverage rate of approximately 300 – 400 sq. ft. per gallon. Allow to dry 4 – 6 hours before applying a second coat to achieve the best results. WB Epoxy Clear may also be applied with airless spray equipment. When spraying, mask off walls and surrounding areas with plastic to avoid overspray. Have adequate ventilation and wear the proper respirator.

Not Recommended For

- Do not apply to concrete less than 28 days old.
- Do not apply to concrete with curing or sealing membrane.
- Do not apply to base concrete at a temperature less than 50°F (10°C).

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Chemical Resistance

WB Epoxy Clear has good resistance to motor oil, gasoline, and transmission fluid. Brake fluid can cause slight softening but usually recovers if removed quickly. ResinTek recommends each client conduct their own specific test to determine suitability of this or any other product for their application.

Color Options: Clear

Packaging: 1.25- and 5-gallon kits

Storage: $\geq 50^{\circ}\text{F}$ (10°C). Do not let freeze.

Slip/Fall Precautions

Using slip resistant granules in all outdoor applications where the WB Epoxy will be used as a topcoat sealer and on indoor applications that may be exposed to water, oil or other spills that may cause a slippery environment. Aluminum oxide granules #80 grit or courser may be broadcast into the prime coat to achieve the amount of slip resistance desired. It is the end user's responsibility to determine the suitability of a coating for their application. ResinTek or its sales agents will not be responsible for the injury incurred in a slip/fall accident.

Safety Precautions

Chemical systems require the use of proper safety equipment and procedures. Please follow product MSDS and Safety Manual for detailed information and handling guidelines. For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage, and handling are only the opinion of ResinTek. Users should conduct their own tests to determine the suitability of these products for their own purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products will differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.

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