



RT-WB

PRODUCT DESCRIPTION AND USE

RT-WB is a two component water-based epoxy system that features ease of application, very low odor and excellent overall coating performance. This material cures blush free over a wide range of temperatures and adheres tenaciously to a variety of substrates including damp or wet concrete.

RT-WB is used as a general purpose coating for concrete floors and as a primer under epoxy, polyurethane and acrylic materials. The raw material package has a 30 year history of success as a concrete coating. RT-WB is recommended for coating warehouse and factory floors, coating automotive repair facilities, residential garage floors and for many other commercial and industrial maintenance applications. Because of its ease of application, RT-WB is an excellent choice for do-it-yourself floor coating projects.

Chemical Composition

Modified Bisphenol A epoxy resin crosslinked with a water soluble amine adduct.

Colors

16 standard colors available, plus clear.

Limitations

- Exterior pigmented applications will show chalking.
- Exterior clear applications are not recommended.
- Acid etched surfaces must be thoroughly rinsed before coating.
- Not recommended for use over acid stain

TECHNICAL DATA

Physical Properties

Mixing Ratio, by Volume.....	4-1
Solids Content, by Weight	51%
Solids Content, by Volume	43.5%
Volatile Organic Compounds.....	50 grams/liter
Pot Life (77°F).....	2-3 hours
Cure Times (77 degrees)	
Dry to Touch	2 hours
Recoat	12-18 hours
Light Traffic.....	18-24 hours
Full Cure	7 days

Higher temperatures and lower humidity will accelerate cure times.
Lower temperatures and high humidity will lengthen cure time.

WARRANTY INFORMATION

ResinTek Systems guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. ResinTek Systems MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. ResinTek Systems shall not be liable for damages caused by application of its products over concrete with excessive moisture vapor transmission or alkalinity. ResinTek Systems shall not be liable for any injury incurred in a slip and fall accident. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product.

Properties Performance

Gloss (60 degrees)	85-90
Pencil Hardness (ASTM D-3363)	F-H
Adhesion to damp concrete (ASTM D-451)	concrete fails before loss of bond
Tabor Abrasion - 1000 gm. load 1000 cycles, CS 17 wheel	60-65 mg. loss

CHEMICAL AND STAIN RESISTANCE (ASTM D-1308 24 HOUR IMMERSION)

Coffee	no effect
Vegetable Oil	no effect
Mustard	no effect
Whiskey	no effect
Urine	no effect
Trisodium Phosphate, 25% solution	no effect
Gasoline.....	no effect
Motor Oil	no effect
Brake Fluid.....	slight softening, film recovers
Transmission Fluid.....	no effect
Mineral Spirits	no effect
10% Sulphuric Acid	no effect
10% Hydrochloric Acid	no effect
10% Acetic Acid.....	no effect
Xylene.....	slight softening, film recovers
MEK	film destroyed

GENERAL INFORMATION

Moisture Vapor Emissions Precautions

All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission that may lead to blistering and failure of the coating system. It is the coating applicator’s responsibility to conduct calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions are present before applying any coatings. RTS can supply moisture remediation products. Consult our technical service department. ResinTek Systems and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions.

Surface Preparation

Concrete must be cured 7 days and be clean, structurally sound, and free of wax, loose paint or curing compounds. Surface may be damp, but standing water should be removed. Concrete should be shot-blasted, acid etched or diamond ground to achieve a minimum 5 mil profile. **If acid etched, use of a floor machine with a nylogrit brush is required. Do not allow the etching solution to dry on the concrete. Etched surface must be thoroughly rinsed. Pressure washing after etching is ideal. Do not neutralize with a base material.** Carefully follow the guidelines listed in the ResinTek Systems Surface Preparation Manual. If surface is prepared by diamond grinding, grind thoroughly to “open up” the surface. Vacuum concrete dust and rinse surface well. Previously coated surfaces must be mechanically cleaned and abraded with steel wool or 80 grit sandpaper.

Mixing Instructions

Mix only that amount of material that can be used in a 2-3 hour period. In very hot weather it is advisable to mix smaller batches to ensure good flow and workability. Because color change can occur as mixed material advances into its pot life, when using as a pigmented finish coat, mix only that amount of material than can be used in 1 hour. Premix Part A before blending with Part B. Combining ratio is 4 Parts A to 1 Part B. **Proportion the amounts carefully and mix for 2 full minutes using a low speed drill, scraping the bottom and sides of the mixing vessel. 15-20% water must be added to achieve a low application viscosity. A common mixing ratio is 4A:1B:1water.**

Application Recommendations

RT-WB is normally applied 200-350 sq. ft. per gallon by brush, roller or airless spray. If using as a primer and trapped air in the substrate creates bubbles, continued rolling will cause them to disappear. RT-WB should normally be recoated after an overnight cure period. However, if conditions are very cool and/or damp, 48 hours cure time should be allowed before recoating. If the product cures longer than 72 hours, the surface should be lightly sanded before recoating. When using a pigmented finish coat, keep a "wet edge" and do not attempt to roll over material that has begun to set as a change in color will result.

Handling Precautions

Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin; wear protective gloves. Read Material Safety Data Sheet before using.

Slip and Fall Precautions

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. ResinTek Systems recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. ResinTek Systems or its sales agents will not be responsible for injury incurred in a slip and fall accident.