



RTE – WB Gloss

# Water Based Epoxy

Water-Based Epoxy Coating

## TECHNOLOGY DESCRIPTION

Water Based Epoxy coatings represent the next generation of epoxy flooring technology. Many of these high-performance coatings utilize domestically produced soybean oil and environmentally friendly packaging.

## PRODUCT DESCRIPTION

Water Based Epoxy is a two-component, water-based epoxy floor coating that provides a high gloss, seamless, hygienic surface that is hard and durable. Available in clear and premixed colors, this durable material cures to a smooth, glossy surface or, with the addition of aggregate, a non-skid texture. Color flakes can also be used as a broadcast to produce a seamless, decorative finish.

## TYPICAL PROPERTIES AT 70°F

Mix Ratio	4B:1A
VOC Content	25 grams/ltr
Induction Time	15 minutes
Bond Strength (ASTMD-4541)	>300 psi
Abrasion Resistance (ASTM D-4060)	.05 grams
Volume Solids	Approx. 70%

*The data shown above reflects typical results based on laboratory testing under controlled conditions. Variations from the data shown may result. Test methods are modified where applicable.*

## INSTALLATION DATA

Storage Environment	Dry area, 65-80°F
Application Temperature, ambient	60-85°F
Application Temperature, substrate	Minimum 5°F above dew point
Shelf Life	1 year
Pot Life, @77°	1 hour
Foot Traffic, @77°F	24 hours
Service @77°F	Light: 48 hours / Full: 48-72 hours

## IMPORTANT INFORMATION

1. Not designed for exterior use or constant immersion applications.
2. Floors should be sloped to drain to prevent standing water or chemicals.
3. Confirm product performance in specific chemical environment prior to use.
4. Prepare substrate according to "Surface Preparation" portion of this document.
5. Do not apply to slabs on grade unless a heavy unruptured vapor barrier has been installed under the slab or where moisture or MVT is present.
6. Always use protective clothing consistent with OSHA regulations during use.
7. Refer to Material Safety Data Sheet for detailed safety precautions.
8. For industrial/commercial use. Installation by trained personnel only.

## TECHNICAL DATA SHEET

### BENEFITS

- Easy mixing, user friendly application
- Seamless, monolithic application
- Durable finish, low maintenance
- Vapor Permeable
- Low VOC, very low odor

### RECOMMENDED USES

- Warehousing & Distribution Facilities
- Garage Flooring
- Light Duty Flooring

### GENERIC DESCRIPTION

Water-Based Epoxy Floor Coating

### TYPICAL APPLICATION

Two coats of Water Based Epoxy as

coating or for decorative finish:

Broadcast flakes into 2<sup>nd</sup> coat and topcoat with high performance epoxy (HPE) or polyaspartic (SBA)

### STANDARD COLORS

Clear, Gray and Tan

### PACKAGING & COVERAGE

2-Gallon unit kits (clear or pigmented)

Typical application

**200-250 sqft /gal @ 4.0-5.0 DFT**

## SURFACE PREPARATION

**Concrete:** Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.

- *New concrete should be cured a minimum of 28 days.*
- *Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.*
- *Remove any laitance or weak surface layers.*
- *Concrete should have a minimum surface tensile strength of at least 300 PSI per ASTM D-4541.*
- *Surface profile shall be CSP-1 to CSP-3 meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, prepare surface by mechanical means to achieve this desired profile.*
- *Moisture vapor transmission should be 10 pounds or less per 1,000 square feet over a 24-hour time period as confirmed through a calcium chloride test, as per ASTM E-1907. Quantitative relative humidity (RH) testing, ASTM F-2170, should confirm concrete RH results <80%.*
- *All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.*
- *Outgassing may occur due to the porosity of some concrete surfaces. To reduce the effect of outgassing, the primer and coating should be applied when the temperature of the concrete substrate is dropping. This usually occurs in the evening; however, the concrete substrate temperature should be measured with a surface thermometer for verification. Double priming will greatly reduce the effects of outgassing by additionally filling the pores in the concrete.*

## INSTALLATION STEPS

1. Mix Ratio: We recommend mixing Complete kits
2. Pour Part A into the Part B pail and mix for a minimum of two minutes, using a mechanical jiffy-type mixer operated at low speed. Scrape the side of the pail to ensure the entire product has been properly mixed; any unmixed material left on the side of the pail will not cure.
3. Allow mixed epoxy to induct for 15 minutes before beginning application.
4. Apply mixed material by roller or brush and back-roll. Move quickly as possible to provide maximum working time. Apply all material before the pot life listed.
5. When applying decorative chips, broadcast clean flakes onto wet coating and continue until complete.
6. After cured, apply second coat for best results and best appearance.

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