



# RTE-CT

## High Performance Epoxy Coating

### TECHNOLOGY DESCRIPTION

ResinTek coatings represent the next generation of epoxy flooring technology. Many of these high performance coatings utilize domestically produced soy bean oil and environmentally friendly packaging.

### PRODUCT DESCRIPTION

ResinTek is a two-component, 100% solids, high performance epoxy floor coating that provides a high gloss, seamless, hygienic surface that is hard and durable. Mixed with color packs, this durable material cures to a smooth, glossy surface or, with the addition of aggregate, a non-skid texture. Color quartz or color flakes can also be used as a broadcast to produce a seamless, decorative finish.

### TYPICAL PROPERTIES AT 70 °F

Compressive Strength (ASTM C-579).....	8,200 psi
Tensile Strength (ASTM D-638) .....	1,650 psi
Flexural Strength (ASTM C-580) .....	3,600 psi
Hardness, Shore D (ASTM D-2240) .....	85 – 90
Bond Strength (ASTM D-4541) .....	425 psi
Abrasion Resistance (ASTM D-4060) .....	80 mg
Volume Solids .....	100%

*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.....	50–95°F
Application Temperature, substrate .....	Minimum 5°F above dew point
Shelf Life .....	1 year
Pot Life, @ 77°F.....	25 minutes
Foot Traffic, @ 77°F.....	12–24 hours
Service, @ 77°F .....	Light: 24 hours / Full: 48–72 hours
Recoat Window .....	within 24 hours at 70F

### IMPORTANT INFORMATION

1. Like all epoxies, not 100% color stable without use of UV stable topcoat.
2. Not designed for exterior use or constant immersion applications.
3. Floors should be sloped to drain to prevent standing water or chemicals.
4. Confirm product performance in specific chemical environment prior to use.
5. Prepare substrate according to “Surface Preparation” portion of this document.
6. 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.
7. Always use protective clothing consistent with OSHA regulations during use.
8. Refer to Material Safety Data Sheet for detailed safety precautions.
9. For industrial/commercial use. Installation by trained personnel only.

## TECHNICAL DATA SHEET

### BENEFITS

- Multiple system possibilities with one product
  - Full gloss finish
  - Multi-color quartz and flake finishes
  - Various surface finishes available
  - Can be used as a primer, base, topcoat
- Seamless, monolithic application
- Durable finish, chemical resistant
- Available in clear and a wide array of colors
- Zero VOC, very low odor

### RECOMMENDED USES

- Warehousing & manufacturing facilities
- Chemical processing plants
- Laboratories, hospitals, healthcare facilities
- Stadiums & other entertainment venues
- Educational & institutional facilities
- Cafeterias, kitchens, storefronts, aisles
- Bathrooms, showers
- Topcoat over VerdeFloor floor systems

### GENERIC DESCRIPTION

Multi-Purpose Epoxy Coating

### TYPICAL APPLICATION

Floor Coating (primer plus 2 coats)

Aggregate, Color Quartz or Flake broadcast

Top Coat over VerdeFloor systems

### STANDARD COLORS

Clear. Variety of color pack options available

### PACKAGING & COVERAGE

3 Gallon, 15 Gallon, 150 Gallon units

2 to 1 Mix Ratio A:B

2 Part A Resin : 1 Part B Hardener

**100 sqft / gallon @ 16 mils**

## 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-3 to CSP-5 meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 60-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.*
- *Moisture vapor transmission should be 3 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 <75%.*
- *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 2:1 Resin to Hardener
2. Prime concrete surface with ResinTek Primer @ 175-250 sqft / gallon. Primer coat of advised primer may be thinned with up to 5% Xylene or IsoPropyl Alcohol. Or prime with ResinTek Advised product for green concrete applications.
3. Part A should be premixed prior to use
4. If pigmented color is to be used, add pre-mixed color pack to Part A. Add one color pack per 3 mixed gallons. NOTE: For white, light gray, tan and safety colors, use 2 color packs per 3 mixed gallons for increased hiding.
5. Pour Part B into the Part A 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.
6. Apply mixed material by roller or squeegee and back-roll. Move quickly and empty epoxy coating out of the pail and onto concrete surface as quickly as possible to provide maximum working time. Material left in the pail will generate heat and have a reduced pot life.  
*NOTE: Back-roll lightly if necessary. DO NOT OVER ROLL. Too much rolling may introduce small air bubbles into system.*
7. When applied as a non-skid coating, broadcast clean, dry silica sand or aluminum oxide aggregate into wet resin. Allow to dry. A full broadcast to refusal will produce the best looking and most durable system. Remove all excess grit and scrape floor before applying second coat.
8. After the first coat has become tack free (within approximately 10 hours of cure @70°F and before exceeding 24 hour recoat window), apply a second coat.
9. ResinTek offers a complete line of topcoats for increased resistance to UV exposure, chemicals and high traffic.

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