

## DESCRIPTION

TuffRez Epoxy Primer is a two-component, penetrating epoxy primer used to prime concrete surfaces. It is commonly utilized as part of a complete flooring system in conjunction with other TuffRez products.

## TYPICAL APPLICATION

• Primer	TuffRez Epoxy Primer @ 175–250 ft <sup>2</sup> /gallon WFT
• Overcoat	TuffRez Flooring System from PolySpec

## PERFORMANCE DATA

Bond Strength (ASTM D-4541)	400 psi
VOC	0.72 lb/gal; 86 gm/L
Volume Solids	90%

## STORAGE & INSTALLATION

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	45 minutes
Set Time, @ 77°F	5 hours

*Material cures more slowly at cooler temperatures, and working time will be substantially reduced at higher temperatures. In hot weather, material should be cooled to 65°F to 80°F prior to mixing and application to improve workability and avoid shortened pot life. The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*

## CONSIDERATIONS & LIMITATIONS

1. PolySpec does not recommend that grit be broadcast or otherwise introduced into TuffRez Epoxy Primer. If enhanced slip resistance is desired, the flooring systems' body coat or topcoat may be specified to serve this function.
2. This product is not designed to provide complete hide and color coverage. If complete hide is required, use additional TuffRez topcoats.
3. Floors should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard.
4. Do not thin with solvents unless advised to do so by PolySpec.
5. Confirm product performance in specific chemical environment prior to use.
6. Prepare substrate according to "Surface Preparation" portion of this document.
7. Do not apply to slabs on grade unless a heavy unruptured vapor barrier has been installed under the slab.
8. Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Material Safety Data Sheet for detailed safety precautions.
9. For industrial/commercial use. Installation by trained personnel only.

# TuffRez<sup>®</sup> Epoxy Primer

TECHNICAL DATA SHEET

## Epoxy Primer for Concrete

### BENEFITS

- Low viscosity formulation penetrates and seals concrete pores
- Provides superior adhesion to concrete and higher tensile and flexural strengths when compared to conventional polyamide primers
- Cures at ambient temperatures down to 50°F
- Resistant to amine blush, even when cured at low temperatures and high humidity
- Requires zero induction time

### RECOMMENDED USES

- Concrete primer, as part of a complete TuffRez<sup>®</sup> flooring system

### GENERIC DESCRIPTION

Primer

### STANDARD COLORS

Gray–Opaque

### PACKAGING

2.5-Gallon Unit

### COVERAGE

175–250 ft<sup>2</sup>/gallon

*May vary depending on concrete porosity*

## 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.*

**Refer to PolySpec Surface Preparation Guidelines for more details.**

## INSTALLATION STEPS

1. Component A Resin should be premixed prior to using due to possible additive separation.
2. Pour Component B Hardener into the Component A Resin 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. Apply resin/hardener mixture by roller or squeegee. Move quickly and empty contents of pail onto surface as soon as possible to provide maximum working time. Material left in the pail will generate heat and have a reduced pot life.  
*NOTE: Do not turn the pail upside down and allow to drain onto substrate.*
4. Follow squeegee application with a back-roll using a short nap roller.
5. *OPTIONAL STEP:* Once primer has become tacky to the touch, a second primer coat may be applied.  
*NOTE: Double priming will greatly reduce the effects of outgassing by additionally filling the pores in the concrete.*  
*NOTE: Broadcasting grit into TuffRez Epoxy Primer is not recommended.*
6. Once primer has become tacky to the touch, proceed to installation of a PolySpec flooring system; refer to technical data sheet for installation instructions.  
*NOTE: Primed surfaces should be recoated within 24 hours. For longer waiting periods, wipe with xylene until surface becomes tacky. If surface remains hard, abrasive sanding is required.*
7. For best results, clean tools and equipment with PolySpec® All Purpose Cleaner, a nonflammable and non-evaporating cleaner. Always wear gloves when using this product.

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Rev 03/05

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