

## DESCRIPTION

TuffRez 239 is a two-component, textured epoxy floor coating with high strength polymer beads incorporated for a unique low profile textured finish. It is suited for use as a topcoat over epoxy coatings.

## TYPICAL APPLICATION

• Primer	PolySpec or TuffRez Epoxy Primer @ 5–7 mils
• Basecoat	Epoxy Basecoat from PolySpec @ 15–20 mils (various coatings available)
• Topcoat	TuffRez 239 @ 5–8 mils
• Options	Anti-Microbial Formulation Upgrade (TuffRez 239-AM)

## PERFORMANCE DATA

Compressive Strength (ASTM C-579) .....	9,000 psi
Tensile Strength (ASTM D-638) .....	1,650 psi
Flexural Strength (ASTM C-580) .....	3,500 psi
Hardness, Shore D (ASTM D-2240) .....	85–90
Bond Strength (ASTM D-4541) .....	425 psi
Abrasion Resistance (ASTM D-4060) .....	80 mg
VOC .....	0.114 lb/gal; 14 gm/L
Volume Solids .....	>98%

## 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 .....	35 minutes
Foot Traffic, @ 77°F .....	12 hours
Service, @ 77°F .....	Light: 24 hours / Full: 48–72 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. This product is not designed for exterior use, immersion, or any use where moisture can reach the underside of the flooring.
2. 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.
3. Do not thin with solvents unless advised to do so by PolySpec.
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.
7. 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.
8. For industrial/commercial use. Installation by trained personnel only.

# TuffRez<sup>®</sup> 239

## TECHNICAL DATA SHEET

### Epoxy Coating, Light Diffusing Finish

## BENEFITS

- Non-skid texture diffuses light, reduces glare
- Effectively hides imperfections or inconsistencies in concrete surfaces
- Seamless, monolithic application
- Resists mechanical damage from foot traffic and rubber wheel vehicles
- Resists many acids, alkalies and salts

## RECOMMENDED USES

- Industrial floors
- Light manufacturing areas
- Automotive service bays
- Shop areas
- Entrancesways and aisles

## GENERIC DESCRIPTION

Epoxy

## STANDARD COLORS

Light Gray, Medium Gray

Additional colors available upon request. Non-stocking colors may be subject to additional lead time, minimum order requirements, and a slight premium.

## PACKAGING

3-Gallon Unit

## COVERAGE

320 ft<sup>2</sup> / gallon @ 5 mils WFT

## 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. Prime surface with a PolySpec or TuffRez Epoxy Primer. See data sheet for application details.

*NOTE: For use as a topcoat for TuffRez epoxy coatings, apply within 24 hours of epoxy installation. If 24 hours has passed, sand the coating and wipe with a 50:50 mixture of water and isopropanol. Once solvent has flashed, proceed with application of TuffRez 239.*

2. Component A should be premixed prior to using due to possible additive separation that may occur during transportation and storage.
3. Pour Component B Hardener into the Component A Resin pail and mix well with 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.

*NOTE: Do not turn the pail upside down and allow to drain onto substrate.*

4. Apply with a 1/4" nap roller and backroll. To minimize lap lines in finish coat, immediately cross roll material (uniform 90° angle to initial coat).
5. 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.

2R:1H / DOC TR239-TDS

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