

DESCRIPTION

TuffRez 201RC is a two component, 100% solids, high viscosity epoxy receiving coat used with decorative quartz flooring systems.

TYPICAL APPLICATION

• Primer	PolySpec or TuffRez Epoxy Primer @ 5–7 mils
• Receiving Coat	TuffRez 201RC @ 20 mils
• Decorative Quartz	0.6 lbs/ft ²
• Topcoat	TuffRez 201TC @ 16 mils / Various other topcoats available Anti-Microbial Formulation Upgrade (TuffRez 201RC-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
Volume Solids	100%

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
Set Time, @ 77°F	10–12 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. Due to viscosity, this product will follow contours of substrate. Floor should be planed and leveled. If this cannot be achieved, PolySpec recommends TuffRez[®] DL-2 System, which incorporates TuffRez[®] 201 Epoxy Floor Coating.
2. Do not use partial units. Prolonged exposure of product in containers to air may cause loss of clarity.
3. This product is not designed for exterior use, immersion, or any use where moisture can reach the underside of the flooring.
4. 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.
5. Do not thin with solvents unless advised to do so by PolySpec.
6. Confirm product performance in specific chemical environment prior to use.
7. Prepare substrate according to “Surface Preparation” portion of this document.
8. Do not apply to slabs on grade unless a heavy unruptured vapor barrier has been installed under the slab.
9. 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.
10. For industrial/commercial use. Installation by trained personnel only.

TuffRez[®] 201RC

TECHNICAL DATA SHEET

Epoxy Receiving Coat, High Viscosity

BENEFITS

- Suspends broadcast media and keeps quartz from sinking, eliminating resin/quartz puddling
- Combined with TuffRez 201TC as a topcoat, creates effect of a much thicker application with fewer and less costly steps
- Seamless, monolithic flooring

RECOMMENDED USES

- Laboratories, hospitals, healthcare facilities
- Stadiums & other entertainment venues
- Educational & institutional facilities
- Cafeterias, storefronts, aisles
- Bathrooms, showers

GENERIC DESCRIPTION

Epoxy

STANDARD COLORS

Clear (opaque prior to cure)

PACKAGING

10-Gallon Unit

COVERAGE

80 ft² / gallon @ 20 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.*

Refer to PolySpec Surface Preparation Guidelines for more details.

INSTALLATION STEPS

1. Prime surface with a PolySpec or TuffRez Primer for epoxies on concrete surfaces. See data sheet for application details.
2. Pour Component A Resin and Component B Hardener into a separate mixing vessel and mix with a mechanical jiffy-type mixer operated at low speed.
3. Apply by roller or notched trowel to surface. Back roll material to ensure uniform coverage of substrate.
4. While resin basecoat is wet, broadcast quartz aggregate into it, making sure the entire floor is covered. Aggregate must “free fall” onto the coating; do not throw down or across the surface.
5. Allow to cure, and then vacuum off excess aggregate.
6. After excess aggregate is removed, “stone” the surface lightly with a coarse stone or steel trowel to remove imperfections. Vacuum again.
7. Apply one to two topcoats of TuffRez 201TC. See data sheet for detailed application instructions.
8. 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.

1R:1H / DOC TR201RC-TDS

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