

DESCRIPTION

TuffRez 201OP is a two-component, 100% solids, orange peel textured epoxy topcoat with improved UV stability compared to conventional epoxy coatings. It is suited as a topcoat over epoxy or alone over primed floor surfaces.

TYPICAL APPLICATION

• Primer	PolySpec or TuffRez Epoxy Primer @ 5–7 mils
• Top Coat	TuffRez 201OP @ 5–8 mils
• Options	Anti-Microbial Formulation Upgrade (TuffRez 201OP-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
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. Due to viscosity, some roller lines may appear.
2. This product is not designed for exterior use, immersion, or any use where moisture can reach the underside of the flooring.
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[®] 201OP

TECHNICAL DATA SHEET

Epoxy Coating, UV Stable, Orange Peel Finish

BENEFITS

- Improved UV stability over conventional epoxy coatings, and at a lower cost than urethane topcoats
- Textured finish diffuses light, reduces glare
- Effectively hides imperfections or inconsistencies in concrete surfaces
- Seamless, monolithic flooring
- Withstands mechanical damage from foot traffic and rubber wheel devices
- Resists many acids, alkalies and salts

RECOMMENDED USES

- Industrial floors
- Laboratories
- Kitchens
- Warehouse floors
- Traffic aisles
- Retail store traffic areas

GENERIC DESCRIPTION

Epoxy

STANDARD COLORS

Clear

PACKAGING

3-Gallon Unit

COVERAGE

320 ft² / gallon @ 5 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.

NOTE: For use as a topcoat for TuffRez epoxy coatings, apply within 24 hours of epoxy installation. If 24 hours have passed, lightly sand the coating and wipe with a 50:50 mixture of water and isopropanol to remove any dust. Once solvent has flashed, proceed with application of TuffRez 201OP.
2. Pre-mix Component A Resin. Pre-mix Component B Hardener.
3. Pour Component B Hardener into the Component A Resin pail and mix with a mechanical jiffy-type mixer operated at low speed.
4. Apply resin/hardener mixture at 5 mils WFT using a 1/4" nap roller.
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 TR201OP-TDS

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