

DESCRIPTION

TuffRez® 226 is a three-component aliphatic waterborne acrylic urethane floor coating, contains low VOCs and has very little odor during application. It offers excellent wear properties and chemical resistance for high performance applications. It is suited for use as a topcoat over an epoxy system or alone over primed floor surfaces.

TYPICAL APPLICATION

• Primer	PolySpec or TuffRez Epoxy Primer @ 5-7 mils
• Basecoat	Thiokol LPE 5020 @ 10-20 mils TuffRez 205 @ 8-10 mils (various coatings available)
• Topcoat	TuffRez 226 @ 3-5 mils (WFT)

PERFORMANCE DATA

Abrasion Resistance, 1000 cycles/CS-17, 1000 gm (ASTM D-4060) .. 30 mg
VOC 0.12 lb/gal; 16 gm/L
Volume Solids 60%

STORAGE & INSTALLATION

Storage Environment Dry area, 65-80°F
Application Temperature, ambient 50-85°F
Application Temperature, substrate Minimum 5°F above dew point
Shelf Life 6 months
Pot Life, @ 77°F 60minutes
Foot Traffic, @ 77°F 12 hours
Full Service, @ 77°F 48 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. Vehicles with rubber tires should not be parked on coating within 36 hours of installation.
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® 226

TECHNICAL DATA SHEET

Waterborne Acrylic Urethane Coating, Gloss or Flat finish

BENEFITS

- Gloss or Matte finish available
- Low VOC, low odor; ideal for use in confined spaces where occupants are present
- UV stable, non-yellowing
- Resists attack by most acids, alkalis, detergents, lubricating oils, solvents and chemicals
- Excellent abrasion resistance

RECOMMENDED USES

- Tank Exterior Coating
- Laboratories
- Clean rooms
- Hospitals & healthcare facilities
- Stadiums & other entertainment venues
- Animal holding areas
- Chemical processing plants

GENERIC DESCRIPTION

Aliphatic Water Borne Acrylic Urethane

STANDARD COLORS

Clear

White – (when used as a topcoat for the 5020 system which is spray applied)

PACKAGING

3 Gallon Unit

COVERAGE

530 ft² / gallon @ 3 mils (WFT)

320 ft² / 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. TuffRez 226 is normally applied over Thiokol LPE 5020. See applicable data sheets for detailed installation instructions of these products.

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 226.

2. Pour Component A Resin for one minute with a mechanical jiffy-type mixer operated at medium speed for one minute.
3. Pour Component B Hardener into Component A Resin and mix for two additional minutes.

IMPORTANT: Do not add Component C mixture until Components A and B have been mixed according to the instructions outlined above.

4. Add Component C. Mix for one additional minute.
5. Spray using airless equipment at 1500-2000 psi pressure. Use a 0.015"- 0.017" tip. An additional 16-32 ounces of water can be added to improve the spray pattern, if needed.
6. **OPTIONAL STEP:** Apply at 3 to 5 WFT using 1/4" or 1/8" nap rollers; coating may foam at a greater film thickness. To minimize lap lines in finish coat, immediately cross roll material (uniform 90° angle to initial coat)
7. For best results, clean tools and equipment before product has cured, using warm, soapy water. If material has cured, use PolySpec® All Purpose Cleaner, a nonflammable and non-evaporating cleaner. Always wear gloves when using this product.

C / DOC TR226-TDS

Rev 04/08

TuffRez and PolySpec are ® Registered Trademarks of PolySpec L.P.

© Copyright 2005 PolySpec L.P. All rights reserved. Published technical data and instructions are subject to change without notice. Please visit the online catalog at www.polyspec.com for the most current technical data and instructions. Or, you may contact your PolySpec representative for current technical data and instructions.

PolySpec, L.P. warrants its products to be free from defects in material and workmanship. PolySpec's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at PolySpec's option, to either replacement of products not conforming to this warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to PolySpec in writing within five days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify PolySpec of such nonconformance as required herein shall bar Buyer from recovery under this warranty.

PolySpec makes no other warranties concerning this product. No other warranties, either expressed or implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall PolySpec be liable for consequential or incidental damages.

Any recommendation or suggestion relating to the use of the products made by PolySpec, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for the Buyer to satisfy itself of the suitability of the products for its own particular use, and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment changes in procedures of use, or extrapolation of data may cause unsatisfactory results. PolySpec cannot guarantee that color will conform to sample, if provided.