

## DESCRIPTION

RezRok 155 is a high performance epoxy grout used for supporting heavy machinery subjected to dynamic loading. This three component, 100% solids grout meets or exceeds most other epoxy and inorganic grouts in maintaining critical physical properties at elevated temperatures.

## PERFORMANCE DATA

### Compressive Strength (ASTM C-579)

16 Hours.....	11,500 psi
1 Day .....	14,500 psi
7 Days.....	17,300 psi

Tensile Strength (ASTM C-307).....2,600 psi

Flexural Strength (ASTM D-580).....5,300 psi

Bond Strength (ASTM C-882).....Concrete Failure

Bond Strength (ASTM D-4541)..... Cohesive Failure

### Compressive Creep, inches (ASTM C-480)

10 days cure @ 85°F, 12 hours @ 150°F • Constant load of 350 psi applied at 150°F for 48 hour test period

10 minutes .....	0.00033
30 minutes .....	0.00047
60 minutes .....	0.00070
120 minutes .....	0.00073
480 minutes .....	0.00123
2880 minutes.....	0.00153
1 week .....	0.00189
1 year .....	0.00286
10 years .....	0.00341

Viscosity, @77°F.....Flowable Grout

VOC.....0.0 lb/gal; 0.0 gm/L

Volume Solids.....100%

## STORAGE & INSTALLATION

Storage Environment..... Dry area, 65–80°F

Application Temperature, ambient..... 60–95°F

Shelf Life.....1 year

Installation Thickness, maximum per lift.....4"

Pot Life, @ 77°F.....40 minutes

Initial Set (Remove Forms), @77°F.....16–24 hours

Full Service, @ 77°F.....7 days

*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. Store all grout components (including aggregate) at 65–80°F for at least 24 hours prior to mixing. Do not use aggregate if wet or damp.
2. Do not alter mixing proportions. Use all liquid and all aggregate in unit.
3. Always protect the work area from direct sunlight or inclement weather before, during and after grouting.
4. Grouting and mixing area must be well ventilated.
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. 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.

# RezRok<sup>®</sup> 155

## TECHNICAL DATA SHEET

# High Strength Machinery Grout

## BENEFITS

- Outstanding dimensional stability
- Maintains physical properties at elevated operating temperatures up to 180°F, a point at which many other grouts fail
- Contains no volatile solvents
- Fast curing property and high early strengths for shortened downtime and less cost
- Resistant to most corrosive chemicals and oils
- Excellent flowability without aggregate reduction

## RECOMMENDED USES

- Grout rails, sole plates and machinery bases supporting equipment subjected to dynamic loads
- Setting equipment, such as:
  - Reciprocating engine compressors
  - Turbines
  - Presses
  - Crushers
  - Centrifuges
  - Steel mill production equipment, such as roller tables

## GENERIC DESCRIPTION

Epoxy

## STANDARD COLORS

Gray

## PACKAGING

2-Cubic Foot (ft<sup>3</sup>) Unit, consisting of:

- 1 pail of resin
- 1 can of hardener
- 4 bags of aggregate (F-1 Powder)

## COVERAGE

2 Cubic Feet (ft<sup>3</sup>)

## 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-5 or greater meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 40-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.*

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

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## INSTALLATION STEPS

*NOTE: Refer to "Considerations & Limitations" and "Surface Preparation" portions of this document for important instructions.*

### Preparation

1. Mechanically chip out the concrete surfaces to be grouted about 1/2" to expose the largest aggregate. Remove dust by blowing with dry, compressed air.  
*NOTE: Concrete must be free of oils, waxes and chemicals, and it must be dry.*
2. Remove oils from machinery using a degreaser. Metal surfaces to receive grout should be roughened with a grinder prior to grouting.
3. Seal all anchor bolt sleeves with PVC pipe or polyethylene wrapping. Wax all lifting screws, wedges, jack bolts and other supporting items.
4. Build forms up at least one inch above the bottom of the engine frame. Apply paste wax to forms and chamfer strips in two coats. As an alternate method, plastic sheeting may be stapled to the forms; in this case, make sure sheeting is free of wrinkles. Seal forms with caulking material. Forms should be watertight.

*NOTE: In some cases, it may be necessary to add steel reinforcement to the grout bed, especially in corner areas. For larger pours, expansion joints are recommended. For more information, consult your PolySpec Technical Representative.*

### Mixing

5. Pour Component A Resin into Component B Hardener pail. Mix thoroughly for at least two minutes using a mechanical jiffy-type mixer operated at low speed. Do not over mix.  
*NOTE: Do not add water or solvents to any of the components. Do not alter liquid proportions.*
6. Pour catalyzed liquid into a concrete mortar mixer.
7. Add Part C Aggregate gradually while mixing at 20 rpm maximum. Mix until all particles are wetted out. Use all of the aggregate unless advised otherwise by a PolySpec Technical Representative.

### Application

8. Pour catalyzed grout into forms from one end to the other in the area to be grouted.  
*NOTE: Depth of pour in one application should not exceed 4 inches. If a total depth of more than 4 inches is required, consult your PolySpec Technical Representative.*
9. Final grout level should come slightly above base plates or machinery frame.
10. Smooth grout surface by lightly brushing with a brush dipped in PolySpec® Smoothing Liquid #2. Do not overuse.

### Final Procedures

11. 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.
12. Forms may be removed after grout has completely cooled.
13. After grout has cured, back off leveling screws, and tighten anchor bolt nuts.
14. Make sure grout area is protected from sudden temperature changes for at least 48 hours after grouting.

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