

DESCRIPTION

RezRok 153, a versatile three-component polymer grout, offers a unique low exotherm formulation, which enables it to be used in deep pours and rebuilding applications.

PERFORMANCE DATA

Compressive Strength (ASTM C-109)	14,000 psi
Tensile Strength (ASTM C-307)	2,400 psi
Viscosity @ 77°F	Flowable Grout
VOC	0.00 lb/gal; 0.00 gm/L
Volume Solids	100%

STORAGE & INSTALLATION

Storage Environment	Dry area, 65–80°F
Application Temperature, ambient	45–100°F
Application Temperature, substrate	Minimum 5°F above dew point
Shelf Life	1 year
Installation Thickness, maximum per lift	12"
Pot Life, @ 77°F	60 minutes
Initial Set (Remove Forms), @ 77°F	24 hours
Full Service, @ 77°F	Static Load: 24 hours
..... Dynamic Load:	3–5 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. Do not add water to any of the components or use wet aggregate.
2. Do not alter mixing proportions. Use all liquid and all aggregate in unit.
3. Do not exceed 12" pour depth at a time. Additional pours may be made by allowing grout to set between pours.
4. Do not apply to hot metal (160°F and above).
5. Grouting and mixing area must be well ventilated.
6. Do not thin with solvents unless advised to do so by PolySpec.
7. Confirm product performance in specific chemical environment prior to use.
8. Prepare substrate according to "Surface Preparation" portion of this document.
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.

RezRok[®] 153

TECHNICAL DATA SHEET

Grout, Multi Purpose, Deep Pour

BENEFITS

- Moisture insensitive
- 100% solids, zero VOC formulation
- Low exotherm for greater pour depth
- High early compressive strength
- May be placed up to 12" in depth

RECOMMENDED USES

- Grout equipment & machinery
 - Static load conditions
 - Dynamic load conditions
- Grouting anchor
- Concrete repair
 - Cracked or oil-soaked foundations
 - Deteriorated curbs
 - Concrete columns & bases
 - Spalls

GENERIC DESCRIPTION

Epoxy

STANDARD COLORS

Gray

PACKAGING

- 2-Cubic Foot (ft³) Unit, consisting of:
- Component A resin
 - Component B hardener
 - 4 bags F-1 powder

COVERAGE

2 Cubic Feet (ft³)

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.*
- *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.*

Steel: For steel surfaces, a “Near White Metal” ultra high-pressure wash or abrasive blast with anchor profile of 2–4 mils in accordance with Steel Structures Painting Council Specification SP-10 or NACE No. 2 is required.

Refer to PolySpec Surface Preparation Guidelines for more details.

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. Build forms up at least one inch above the bottom of the equipment frame. Apply paste wax to forms and chamfer strips in two coats. 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

4. 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. Use all aggregate in the unit.

5. Pour catalyzed liquid into a concrete mortar mixer.
6. 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

7. 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 12 inches. If a total depth of more than 12 inches is required, consult your PolySpec Technical Representative.

8. Final grout level should come slightly above base plates or machinery frame.
9. Smooth grout surface by lightly brushing with a brush dipped in PolySpec[®] Smoothing Liquid #2. Do not overuse.

Final Procedures

10. 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.
11. Forms may be removed after grout has completely cooled.
12. Make sure grout area is protected from sudden temperature changes for at least 48 hours after grouting.

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