PolySpec THIOKOL

TECHNICAL DATA SHEET – REZROK® 157

Revised: 2/2017

DESCRIPTION

RezRok 157 is a multifunctional polymer grout formulated to provide maximum chemical resistance to 98% sulfuric acid and other aggressive chemicals. The grout combined blended filler and epoxy novolac resin with a special “stress-relieving” additive to provide a durable and concrete compatible grouting material.

PERFORMANCE DATA

DENSITY	136 lbs/ft^3
VISCOSITY	Flowable Grout
VOC	0.00 lb/gal; 0.00 gm/L
VOLUME SOLIDS	100%

STORAGE & INSTALLATION

STORAGE ENVIRONMENT	Dry area, 65-80ºF
APPLICATION TEMPERATURE, AMBIENT	50-95ºF
APPLICATION TEMPERATURE, SUBSTRATE	Minimum 5ºF above dew point
SHELF LIFE	1 year
INSTALLATION THICKNESS, MAXIMUM LIFT PER POUR	3”
POT LIFE, @ 77ºF	35 minutes
INITIAL SET (REMOVE FORMS), @ 77ºF	24 hours
FULL SERVICE, @ 77ºF	2-3 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 65ºF to 80ºF 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.

BENEFITS

- Withstands direct exposure to most inorganic acids (98% sulfuric acid, 100% phosphoric acid, 38% hydrochloric acid) and other aggressive caustics and solvents
- Superior compatibility with concrete substrates
- 100% solids, zero VOC formulation
- Pourable consistency

RECOMMENDED USES

- Set pumps and tanks
- Resurface trenches
- Seal around equipment

GENERIC DESCRIPTION:

Epoxy Novolac

STANDARD COLORS:

Gray

PACKAGING:

2-Cubic Foot (ft^3) Unit, consisting of:
- Component A resin
- Component B hardener
- 4 bags F-1 powder

COVERAGE:

2 Cubic Feet (ft^3)

REZROK® 157

GROUT, CHEMICAL RESISTANT

ITW Engineered Polymers

CONSIDERATIONS & LIMITATIONS

1. This product is not recommended for nitric acid exposure.
2. Some staining may occur when in direct contact with sulfuric acid or other chemicals.
3. Always protect the work are from direct sunlight or inclement weather before, during and directly after grouting.
4. Keep all components away from heat or open flame.
5. Grouting and mixing area must be well ventilated.
6. Do not thin with solvents unless advised to do so by ITW Engineered Polymers.
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.

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.

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 Guidelines for Subfloor Preparation for additional details.

INSTALLATION STEPS

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

1. **PREPARATION:** Remove oils from machinery using a degreaser. Metal surfaces to receive grout should be roughened with a grinder prior to grouting.
2. 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 ITW Engineered Polymers Technical Representative.*
3. **MIXING:** 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.*
4. Pour catalyzed liquid into a concrete mortar mixer.
5. 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 ITW Engineered Polymers Technical Representative.
6. **APPLICATION:** 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 3 inches. If a total depth of more than 3 inches is required, consult your ITW Engineered Polymers Technical Representative.*
7. Final grout level should come slightly above base plates or machinery frame.
8. Smooth grout surface by lightly brushing with a brush dipped in PolySpec® Smoothing Liquid #2. Do not overuse.
9. **FINAL PROCEDURES:** Always wear gloves when using this product.
10. Forms may be removed after grout has completely cooled.
11. Make sure grout area is protected from sudden temperature changes for at least 48 hours after grouting.

C / DOC RR157-TDS

ITW ENGINEERED POLYMERS
130 Commerce Drive | Montgomeryville, PA 18936
Phone: 215-855-8450 | Fax: 215-855-4688 | www.polyspec.com