

## DESCRIPTION

RezRok 186 is a 100 % solids epoxy system for backing wear metal crushers and grinding mills. The product needs no melting or special equipment, has high volumetric stability that eliminates formation of gaps between backing and liners or support structures, and contains elastomers for high impact and shock resistance.

## PERFORMANCE DATA

### Compressive Strength (ASTM C-579)

1 day.....	13,000 psi
7 days .....	15,000 psi
Tensile Strength (ASTM C-307).....	6,200 psi
Shore D Hardness.....	90
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.....	2"
Working Time, @ 77°F .....	10 minutes
Gel Time, @ 77°F: 200 g mass.....	20-25min
Cure Time, @77°F .....	8 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. 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> 186

## TECHNICAL DATA SHEET

### High Strength Backing Material

## BENEFITS

## RECOMMENDED USES

- Backing Material for wearing plates and rock crushers

## GENERIC DESCRIPTION

Epoxy

## STANDARD COLORS

Blue

## PACKAGING

3.5 gallon unit

## COVERAGE

808.5 in<sup>3</sup> per 3.5 gal unit

## 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.**

## INSTALLATION STEPS

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

### **Preparation**

1. Remove all rust, dirt, grease, and oil on all metallic parts that will come in contact with RezRok 186. Seal hook holes and bottom joints, and protect threaded parts of shafts where necessary. To facilitate easier removal of worn liners, coat crusher heads and mill shells with grease.
2. RezRok 186 must be at 15 C to 26 C before use. Lower temperatures give longer working life, but higher viscosity (harder to pour), while higher temperatures reduce working time to pour into crusher.

### **Mixing**

3. Pre Mix Part A Resin approximately 1 minute.
4. Shake hardener thoroughly mixing its contents.
5. While mixing resin, add hardener contents.

### **Application**

6. Pour mixture immediately after mixing. Pour at one place and allow RezRok 186 to fill the cavity and push out air in front of it. Use dam (tin, cardboard, clay, etc.) to direct the flow when necessary. Unmixed resin (different color clinging to the sides and bottom) should not be drained into the crusher.
7. Succeeding kits may be mixed and poured individually as needed. RezRok 186 adheres to itself.

*Note: Use an approved, positive pressure, supplied air respirator when welding or torch cutting near cured compound. Do Not use open flame on compound.*

### **Final Procedures**

8. 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.

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