

## DESCRIPTION

RezRok 160 is a two component, polymer-modified, cementitious, trowel grade patching mortar. This high performance repair mortar is suited for horizontal and vertical surfaces and is used as an underlayment for coatings and linings and as a restoration material for concrete.

## PERFORMANCE DATA

Compressive Strength (ASTM C-109) .....	9,000 psi
Flexural Strength (ASTM C-580) .....	1,000 psi
Bond Strength (ASTM C-882).....	2,500 psi
VOC .....	0.00 lg/gal; 0.00 gm/L
Volume Solids .....	100%

## STORAGE & INSTALLATION

Storage Environment .....	Dry area, 65–80°F
Application Temperature, ambient .....	50–95°F
Shelf Life .....	1 year
Installation Thickness, maximum per pour (with aggregate extension) ....	3"
Pot Life, @ 77°F.....	60 minutes
Initial Set Time, @77°F .....	90 minutes
Full Service, @ 77°F .....	24 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. RezRok 160 performs best when placed 1/4" or greater in depth.
2. When used in patches 3/4" in depth or greater, add 35–50% (by weight) 3/8" clean washed pea gravel to the RezRok 160 mixture.
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. 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.
7. For industrial/commercial use. Installation by trained personnel only.

# RezRok<sup>®</sup> 160

## TECHNICAL DATA SHEET

### Polymer-Modified Patching Mortar

## BENEFITS

- Zero VOC, very low odor
- Excellent compressive strength for use in high traffic areas
- High abrasion resistance
- Compatible with coefficient of thermal expansion of concrete
- Applied from 1/8" to 3" with aggregate extension
- Suited for horizontal and vertical surfaces
- High flexural strength
- Lightweight

## RECOMMENDED USES

- Floor topping
- Pitch to drains
- Concrete restoration
  - Spalls by chemical spills
  - Damage from mechanical abuse or erosion
- Patch and seal around
  - Floor drains
  - Expansion joint edges
  - Penetrations in concrete

## GENERIC DESCRIPTION

Acrylic Latex Cement

## STANDARD COLORS

Gray

## PACKAGING

0.45-Cubic Foot (ft<sup>3</sup>) Unit

## COVERAGE

20 ft<sup>2</sup> @ 1/4" thickness, per 0.45 ft<sup>3</sup> unit

10 ft<sup>2</sup> @ 1/2" thickness, per 0.45 ft<sup>3</sup> 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.*
- *The base concrete must be roughened (minimum profile of 1/16") to provide mechanical bond, and saturated with water without standing water (Surface Saturated Dry, SSD).*
- *Prepare the area to be repaired by square cutting the edges and removing all unsound concrete. Be sure repair area is not less than 1/8" in depth.*

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

## INSTALLATION STEPS

1. Surface saturate the prepared surface with water, then remove all standing water so substrate is Surface Saturated Dry (SSD).
2. Pour approximately 80% of the Polymer Liquid into a separate mixing container.
3. While continuously mixing with a low speed drill and paddle or a mortar mixer, add the powder. Add the remaining Polymer Liquid to the mix if a looser consistency is desired. Mix to a uniform consistency for a maximum of 3 minutes.

*NOTE: When used in patches 3/4" in depth or greater, add 35–50% (by weight) 3/8" clean washed pea gravel to the RezRok 160 mixture.*

4. Apply a slurry bond coat of RezRok 160 to the prepared SSD substrate, filling all pores and voids. Thoroughly scrub a thin layer of mixed RezRok 160 into the surface with a stiff bristle broom or brush.

*NOTE: Do not apply more of this bond coat than can be covered with mortar before the bond coat dries.*

*NOTE: Do not retemper this bond coat. Do not attempt to thin material with emulsion or additional water. If materials begins to thicken, discard material.*

5. Place the RezRok 160 into the prepared area from one side to the other. As the job proceeds, work the material firmly into the bottom and sides of the patch to assure good bond. Level the RezRok 160 and screed to the elevation of the existing concrete.

*NOTE: RezRok 160 performs best when placed 1/4" or greater depth.*

*NOTE: Depth of pour in one application should not exceed 3/4" without pea gravel extension. When used in patches 3/4" in depth or greater, add 35–50% (by weight) 3/8" clean washed pea gravel to the RezRok 160 mixture.*

6. For maximum performance, wet curing with water is recommended to minimize shrinkage and cracking and to improve physical properties. Wet cure per ACI guidelines for Portland cement concrete.
7. OPTIONAL STEP: When applying a coating to the repair, allow the RezRok 160 to harden. Abrasive blast or scarify the surface to achieve an appearance similar in texture to 40-60 grit sandpaper. Allow RezRok 160 to cure sufficiently before topcoating.

*NOTE: For epoxy systems, allow 24 hours (at 77°F) before topcoating.*

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.

C – 80ozLiquid : 50lbPowder / DOC RR160-TDS

Rev 03/05

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