



TECHNICAL DATA SHEET – REZROK® 105

Revised: 2/2017

DESCRIPTION

RezRok 105 is a highly workable epoxy patching compound used for a wide range of construction and structural repair applications such as bonding and patching where a paste consistency is required.

PERFORMANCE DATA

COMPRESSIVE STRENGTH (ASTM C-579)	11,900 PSI
TENSILE STRENGTH (ASTM C-307)	3,800 psi
HARDNESS (ASTM D-2240)	60-70
BOND STRENGTH (ASTM C-882)	1,400 psi
VOC	0.00 lb/gal; 0.00 gm/L
VOLUME SOLIDS	100%

STORAGE & INSTALLATION

STORAGE ENVIRONMENT	Dry area, 65-80°F
APPLICATION TEMPERATURE, AMBIENT	50-95°F
APPLICATION TEMPERATURE, SUBSTRATE	Minimum 5°F above dew point
SHELF LIFE	1 year
POT LIFE, @ 77°F	40 minutes
INITIAL SET TIME, @ 77°F	60 minutes
LIGHT FOOT TRAFFIC, @ 77°F	7-8 hours
FULL SERVICE, @ 77°F	48-72 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.

BENEFITS

- Anti-sag consistency at thicknesses to 1/4"; horizontal applications to 1/2"
- Moisture insensitive
- Excellent bond strength to concrete and steel
- Non-critical 1:1 mixing ratio

RECOMMENDED USES

- Patch holes and spalls in concrete
- Round corners in tanks or walls prior to coating
- Repair precast beams and panels that are damaged during transportation or use
- Bond dissimilar materials such as concrete, steel, wood and many plastics

GENERIC DESCRIPTION: Epoxy

STANDARD COLORS: Gray
(after mixing black and white components)

PACKAGING: 2-Gallon Unit

MIX RATIO: 1:1 by volume

COVERAGE:

12 ft² / gallon @ 1/8" thickness
3 ft² / gallon @ 1/2" thickness

REZROK® 105
EPOXY PATCHING COMPOUND

CONSIDERATIONS & LIMITATIONS

1. Do not thin with solvents unless advised to do so by ITW Engineered Polymers.
2. Confirm product performance in specific chemical environment prior to use.
3. Prepare substrate according to “Surface Preparation” portion of this document.
4. 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.
5. 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%.

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

1. Scoop Component A Resin and Component B Hardener into a separate clean mixing pail. Stir well using a mechanical jiffy-type mixer operated at low speed. Mix thoroughly until a consistent gray color has been attained.
2. **FOR BONDING APPLICATIONS:** Trowel mixed material onto surface to be bonded. Once RezRok 105 has become tacky to the touch, surfaces may be bonded together.
3. **FOR PATCHING APPLICATIONS:** Fill holes, cracks and/or spalls with RezRok 105 material. Strike material flush with surrounding substrate using a flat edge putty knife or a plastic “bondo spreader.”
4. Always wear gloves when using this product.

1R:1H / DOC RR105-TDS

© Copyright 2017. All rights reserved.

Published technical data and instructions are subject to change without notice. Please visit the online catalog at www.polyspec.com for the most current technical data and instructions. Or, you may contact your ITW Engineered Polymers representative for current technical data and instructions.

ITW Engineered Polymers warrants its products to be free from defects in material and workmanship. ITW's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at ITW's option, to either replacement of products not conforming to this warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to ITW in writing within five days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify ITW of such nonconformance as required herein shall bar Buyer from recovery under this warranty.

ITW makes no other warranties concerning this product. No other warranties, either expressed or implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall ITW Engineered Polymers be liable for consequential or incidental damages.

Any recommendation or suggestion relating to the use of the products made by ITW, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for the Buyer to satisfy itself of the suitability of the products for its own particular use, and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment changes in procedures of use, or extrapolation of data may cause unsatisfactory results. ITW cannot guarantee that color will conform to sample, if provided.