

# Rigid-Rock RR 2025

## APPLIED POLYMER SOLUTIONS, LLC

### PRODUCT PROFILE

**GENERIC DESCRIPTION** RR2025 is a three component 100% solids epoxy gel designed for shallow repair on either vertical or horizontal surfaces. This product is easy to mix and use and has the consistency of a light peanut butter when mixed. Additionally, the product, because it is a 100% solids product, can be applied thicker on horizontal surfaces when required.

**RECOMMENDED USAGE** Recommended for repairing cracks and defects in concrete or masonry. The fast set time makes this product an ideal quick repair gel.

**COLORS STANDARDS:** Off White/Light Gray when mixed

### CHARACTERISTICS/FINISHES

**SURFACE** Smooth.

**PRIMERS** None required.

**TOPCOATS/FINISHES** None required; however, many epoxies and urethanes are compatible. Contact your sales representative for proper topcoat system selections. Multiple coats are required when topcoating over mortar.

### TECHNICAL SPECIFICATIONS

**SOLIDS BY WEIGHT** 100% (mixed)

**THICKNESS** 1/8" to 1 1/2"

**VOLATILE ORGANICS** Zero pounds per gallon

**MIX RATIO** COLORS: 2:1:1 by Volume. Part A= 2.35 lbs / Part B= 1.10 lbs / Part C=.95 lbs (volumes & weights approximate)

**APPLICATION TEMP** 60°F - 90°F (12°C - 32°C)

Cure State	70°F (21°C)
Pot Life	15-25 minutes
Light Traffic/Recoat	8-10 hours
Full Cure/Heavy Traffic	24 hours

**STORAGE TEMP** 65°F - 85°F (18°C - 30°C) in a dry area. Avoid excessive heat and freezing.

**SHELF LIFE** 1 years in an unopened container

**PACKAGING** All kits are premeasured, ready for blending and application

Size	Part A	Part B	Coverage (1/8" x 1/8") / kit
1/2 gallon kit	1 gallon	1 gallon	1228 lin. ft.

Published technical data and instructions may be modified at any time without prior notice. Please contact your Applied Polymer Solutions representative with any questions.

© January 2008, by Applied Polymer Solutions, LLC.

# Rigid-Rock RR 2025

## APPLIED POLYMER SOLUTIONS, LLC

### TECHNICAL SPECIFICATIONS (CONTINUED)

<b>COMPRESSIVE STRENGTH</b>	8,200 psi @ ASTM D695
<b>FLEXURAL STRENGTH</b>	9,800 psi @ ASTM D790
<b>TENSILE STRENGTH</b>	8,300 psi @ ASTM D638
<b>BOND STRENGTH</b>	380 psi (concrete failure)
<b>IMPACT RESISTANCE</b>	Excellent
<b>ABRASION RESISTANCE</b>	CS-17 wheel with 1000 gm/ 1000 cycles = 37 mg loss
<b>ULTIMATE ELONGATION</b>	3.3% at 70F (ASTM D-412)
<b>HARDNESS</b>	Shore D = 75
<b>VISCOSITY</b>	Gel
<b>WEATHERING</b>	Good Stability

### CHEMICAL RESISTANCE

<b>Ammonia</b>	D	<b>Sodium Hydroxide 50%</b>	E
<b>Citric Acid</b>	C	<b>Sulfuric Acid 10%</b>	C
<b>Corn Oil</b>	C	<b>HCl (aq) 36%</b>	B
<b>Lactic Acid</b>	C	<b>Nitric Acid 30%</b>	B
<b>Salt Brine</b>	D	<b>Phosphoric Acid 40%</b>	B
<b>Gasoline</b>	C	<b>Sodium Hypochlorite 3-5%</b>	A
<b>Motor Oil</b>	C	<b>MEK</b>	A
<b>Skydrol</b>	B	<b>Mineral Spirits</b>	C

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

### SURFACE PREPARATION

- SURFACE** All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate.
- MOISTURE** Allow concrete to cure for 28 to 45 days. Verify dryness by testing for moisture with a "plastic film" test; this can be done at room temperature by placing a 4' x 4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. Should moisture be present, perform Moisture Vapor Emission Rate testing using Anhydrous Calcium Chloride (ASTM F1869). Moisture content should not be in excess of 3 lbs. per 1,000 sq. ft. for coatings (5 lbs. for resurfacers) in a 24 hour period.
- MOST SURFACES** We recommend that all loose concrete, previous joint compound or other foreign material to be removed to leave a clean sound joint at least 2" deep.
- FILLING & PATCHING** Joints that have spalled and rounded, known as bull-nosed, should be cut and rebuilt with epoxy mortar/patch. Epoxy mortar once cured should be saw cut to re-establish the joint.
- JOINTS** For best results, edges should be sawcut and a one inch backer rod should be placed into the joint leaving approximately 1 to 1 1/2 inches from the top of the backer rod to the top of the joint.

### APPLICATION

- MIXING** This product is supplied in pre-measured and pre-packaged kits, use and mix the entire kit to avoid mixing problems. To mix, pour the contents of component B into the Component A can and mix the two liquid components together. After the two liquid components are mixed together, add the supplied powder component and mix into the liquids with a jiffy mixer or other suitable mixing apparatus until the material is thoroughly mixed and streak free. This product as supplied in a 1/2 gallon kit will have a pot life of about 20 minutes. Improper or insufficient mixing may result in product failure.
- APPLICATION** The mixed material can be applied by marginal trowel, putty knife or any other suitable equipment. Remove any excess material with a putty knife or similar tool prior to curing. Alternatively, it may also be suitable to let the product become tack free in the joint and then using a razor scraper to cut off or shave the excess above the floor plane. Maintain temperatures within the recommended ranges during the application and curing process. When temperatures are lower, allow more time for this material to cure.

# Rigid-Rock RR 2025

## APPLIED POLYMER SOLUTIONS, LLC

### APPLICATION (CONTINUED)

**RECOAT/TOPCOAT** No recoating or topcoating is necessary. However, if you opt to topcoat the applied joint compound, allow it to cure before topcoating. It is not necessary to prime over the joint compound prior to topcoating the joint compound. Many epoxies and urethanes can be used. In some instances, especially when excessive expansion joint movement is involved, topcoats may chip. However, most epoxy or topcoat products will adhere to the joint compound very well.

**CLEAN UP** Citrus based cleaners or solvents such as Xylene.

*\*Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.*

### LIMITATIONS

**FLOOR CLEANING** Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

- \*Color stability may be affected by environmental conditions such as high humidity or chemical exposure.
- \* Product is not UV color stable and may discolor if exposed to lighting such as sodium vapor lights.
- \* Colors may vary from batch to batch due to variations in the silica filler.
- \* Mortar colors are not from our standard color chart.
- \* Substrate temperature must be 5 degrees F above dew point.
- \* For chemical exposure areas, we recommend a suitable topcoat to reduce porosity and chemical migration.
- \* Test data based on neat resin.
- \*This product is not intended for use as a decorative coating or where color stability or visual appearance is of any significant importance. Its sole purpose is as a protective coating.
- \*If a topcoat of a different color is to be used, multiple coats will be necessary to prevent bleed-through (discoloration)

**Warranty & Limitations of Seller's Liability:** Applied Polymer Solutions, LLC warrants only that our materials represented herein meet the formulation standards or Applied Polymer Solutions, LLC.

We warrant that our products are manufactured to the specifications and that the information stated here is accurate to the best of our knowledge. Information supplied about our products is not a representation or a warranty. It is supplied on the condition that the buyer shall conduct their own tests to determine the suitability of our product for their particular purpose. Listed physical properties are typical and should not be construed as specifications. **NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS THAT WILL BE OBTAINED FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.** We have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of product delivery means acceptance of the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL DIRECTIONS AND PRECAUTIONS ACCORDINGLY.**

**APPLIED POLYMER SOLUTIONS, LLC**

507 Five Leaf Lane, Waxhaw, NC 28173

866-592-9858

<http://applied-polymer-solutions.com>