

# Rigid-Rock RR 2429

## APPLIED POLYMER SOLUTIONS, LLC

### PRODUCT PROFILE

**GENERIC DESCRIPTION** RIGID-ROCK RR 2429 flexible joint sealant is a two component polymer hybrid containing both urethane and novolac resins to provide a resilient and chemical resistance filler for expansion joints and areas where negligible slab movement can occur. This product is an ideal joint filler for secondary containment, immersion service and areas where other similar products would fail due to harsh chemical environment. The two component material (standard) is supplied with a black component and a white component so proper mixing can be easily observed.

**RECOMMENDED USAGE** Recommended for expansion joints in general industry as well as expansion joints of highways, bridges, airports, garages, and marine decks. This product is ideally suited for chemical exposure areas.  
NOT RECOMMENDED for immersion service for all acids and chemicals.

**COLORS** STANDARDS: Medium Gray (mixed) Part A is white/Part B is black

### 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** 1/2" to 1 1/2"

**VOLATILE ORGANICS** Zero pounds per gallon

**MIX RATIO** COLORS: 4:1 by Volume. Part A=9.15lbs / Part B=2.250 gallons.(volumes & weights approximate)

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

#### CURE SCHEDULE

Cure State	70°F (21°C)
Pot Life	15-25 minutes
Light Traffic/Recoat	10 hours
Full Cure/Heavy Traffic	24 hours
Full Chemical Resistance	2-7 days

**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 (1/2" x 1.0") / kit
1 1/4 gallon kit	1 gallon	1 quart	45 - 50 lin. ft.
2.5 gallon kit	2 gallon (2-1 gal pails)	1/2 gallon pail	90 - 100 sq. ft.
Drum Kits	N/A	N/A	N/A

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### TECHNICAL SPECIFICATIONS (CONTINUED)

<b>PRODUCT TYPE</b>	Epoxy/Urethane Hybrid
<b>FLEXURAL STRENGTH</b>	2,945 psi @ ASTM D790
<b>TENSILE STRENGTH</b>	3,460 psi @ ASTM D638
<b>BOND STRENGTH</b>	420 psi (concrete failure)
<b>IMPACT RESISTANCE</b>	Excellent
<b>ABRASION RESISTANCE</b>	CS-17 wheel with 1000 gm/ 1000 cycles = 31 mg loss
<b>ULTIMATE ELONGATION</b>	43.4% at 70F (ASTM D-412)
<b>HARDNESS</b>	Shore A = 81, Shore D = 87
<b>VISCOSITY</b>	30,000-40,000 cps (typical)
<b>WEATHERING</b>	Good Stability

#### CHEMICAL RESISTANCE

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

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 rebuild 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** It is important that the material be mixed well. Therefore take a few extra minutes to make sure adequate time has been taken to mix the two components together thoroughly. Improper mixing will cause an incomplete cure and soft spots in the joint. Mix four parts (by volume) part A to one part (by volume) part B in an oversized mixing container. Mix well with slow speed mixing equipment until totally streak free being sure to scrape the sides and bottom of the mixing container thoroughly. Avoid high speed mixing as this could force air into the product.

**APPLICATION** Apply the mixed product by pouring the mixed material into the expansion joint to be repaired. 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.

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### 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)

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