Rigid-Rock RR 2602

Applied Polymer Solutions, LLC

PRODUCT PROFILE

GENERIC DESCRIPTION RIGID-ROCK RR 2602 is a two component 100% solids pourable gel designed for applications where contamination from water cannot be controlled or for underwater repairs and applications.

RECOMMENDED USAGE Recommended for repairing defects in concrete, cement or masonry products underwater or on wet substrates.

COLORS STANDARDS: Tan/Light Brown (when mixed)

CHARACTERISTS/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 Variable (1/8" to 1" typical)

VOLITALE ORGANICS Zero pounds per gallon

MIX RATIO 2:1 by Volume.

APPLICATION TEMP 35°F - 90°F (1°C - 32C°)

CURE SCHEDULE

Cure State	70°F (21°C)
Pot Life	20-30 minutes
Recoat	3-12 hours
Light Traffic	10-24 hours
Full Cure/Heavy Traffic	2-7 days

STORAGE TEMP 65°F - 85F° (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
3 gallon kit	2 gallon	1 gallon	1,228 lin. ft.
15 gallon kit	10 gallon pail	5 gallon pail	1,228 lin. ft.
Drum Kits	N/A	N/A	N/A

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

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TECHNICAL SPECIFICATIONS (continued)

PRODUCT TYPE	Epoxy/Urethane Hybrid
FLEXURAL STRENGTH	4,960 psi @ ASTM D790
TENSILE STRENGTH	4,114 psi @ ASTM D638
BOND STRENGTH	395 psi (concrete failure)
IMPACT RESISTANCE	Excellent
ABRASION RESISTANCE	CS-17 wheel with 1000 gm/ 1000 cycles = 24.2 mg loss
ULTIMATE ELONGATION	3.1% at 70F (ASTM D-412)
HARDNESS	Shore D = 83
VISCOSITY	187,000 cps (typical)
WEATHERING	Good Stability

CHEMICAL RESISTANCE

Ammonia	**C**	**Sodium Hydroxide 50%**	**D**
Citric Acid	**C**	**Sulfuric Acid 10%**	**B**
Corn Oil	**C**	**HCl (aq) 36%**	**B**
Lactic Acid	**C**	**Nitric Acid 30%**	**A**
Salt Brine	**C**	**Phosphoric Acid 40%**	**A**
Gasoline	**C**	**Sodium Hypochlorite 3-5%**	**A**
Motor Oil	**C**	**MEK**	**A**
Skydrol	**B**	**Mineral Spirits**	**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, know 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 This product has a mix ratio of two parts A to one part B by volume. Normally, the product comes supplied in pre-measured kits. The most accurate way to measure mixing proportions would be by weight (11.6 pounds part A to 5.65 pounds part B although volume ratios at 2: 1 can be utilized). We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. Make sure to scrape the sides and bottom of the mixing container thoroughly when mixing. Water will not impede the cure mechanism for this product. Improper mixing may result in product failure.

APPLICATION The mixed material can be applied by pouring the mixed material directly into the crevice or expansion joint to be repaired. Remove any excess material with a putty knife or similar tool when not underwater. If applying the material underwater, then remove any excess with a scraper type tool after is has partially set up and tacked off. Because of the vastly differing types of applications possible for this product, we recommend that a representative sample be placed and evaluated prior to commencing any large job application. When applying this material underwater, make sure that the material displaces all water beneath the application to assure contact with the substrate which will create a proper bond. The density of the material is greater than that of water and should force out the water when poured into the expansion joint. This product is not intended for small type hairline cracks. When applying material in an expansion joint, a suitable backer rod can be used provided it is not made of material that will absorb water.

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APPLICATION (CONTINUED)

RECOAT/TOPCOAT This product can be applied in successive applications. Topcoating with other products are normally not performed underwater. Always remember that colder temperatures will require more cure time for the product before recoating can commence.

CLEAN UP Citrus based cleaners or solvents such as Xylene.

**Restrict exposure to non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the joint remain dry for the full cure cycle.*

LIMITATIONS

FLOOR CLEANING Caution! Some cleaners may affect the color of the material 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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