# Rigid-Rock RR 2130FS

## APPLIED POLYMER SOLUTIONS, LLC

## PRODUCT PROFILE

**GENERIC DESCRIPTION** RR 2130FS is a dual cartridge system consists of a two component 100% solids polymer designed for applications where a resilient joint material is needed. The material is a semi-clear unpigmented product packaged in a 300ml x 300ml dual cartridge system with a ½" 30 element static mixing nozzle, and retainer nut.

**RECOMMENDED USAGE** Recommended for concrete/cement expansion joints in general industry
NOT RECOMMENDED for immersion service for all acids and chemicals.

**COLORS** STANDARDS: Semi-Transparent Clear/Amber (mixed) - Pigmented not available.

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

**VOLITALE ORGANICS** Zero pounds per gallon

**MIX RATIO** 1:1 by Volume.

**APPLICATION TEMP** 40°F - 90°F (4°C - 32C°)

**CURE SCHEDULE**

| Cure State | 70°F (21°C) |
|---|---|
| Pot Life | 1 - 3 minutes |
| Trim/Recoat | 1 hour |
| Cure/Traffic | 1 - 3 hours |

**STORAGE TEMP** 50°F - 85F° (10°C - 30°C) in a dry area. Avoid excessive heat and freezing unmixed resins.

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

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

| Size | Part A | Part B | Coverage (1/4" x 1") / kit |
|---|---|---|---|
| Dual 300 ml Cartridge | 300 ml | 300 ml | 12 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.

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## TECHNICAL SPECIFICATIONS (continued)

| | |
|---|---|
| **COMPRESSIVE STRENGTH** | 2,300 psi @ ASTM D695 |
| **TENSILE STRENGTH** | 1,984 psi @ ASTM D638 |
| **BOND STRENGTH** | 410 psi (concrete failure) |
| **IMPACT RESISTANCE** | Excellent |
| **ABRASION RESISTANCE** | CS-17 wheel with 1000 gm/ 1000 cycles = 18.2 mg loss |
| **ULTIMATE ELONGATION** | 100% at 70F (ASTM D-412) |
| **HARDNESS** | Shore D = 40 - 45 |
| **VISCOSITY** | 1,200 - 1,400 cps (typical) |
| **WEATHERING** | Good Stability |

## SURFACE PREPARATION

**SURFACE** All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. We recommend that all loose concrete, previous joint compound or other foreign material be removed to leave a clean sound joint at least 2" deep. 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.

**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.

**EXPANSION 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. Improper mixing will cause an incomplete cure and soft spots in the joint. Mix one part by volume part A to one part by volume of part B. This product has a very short pot life of 1-2 minutes and should be applied using plural component pump equipment using a 3/8" diameter 40 element tip. ALWAYS dispense a small beginning portion onto cardboard to prevent non-mixed material from entering joint. Improper mixing may result in product failure.

**APPLICATION** Discard the unmixed portion of mixed material at the start of each application. This product has a very short pot life of 1-2 minutes and should be applied using plural component pump equipment or dispensed with a dual cartridge caulking gun using a 3/8" diameter 40 element tip. Make sure the material applied is uniform in color which would indicate the product is mixed well. If marbling occurs, review your application equipment to ascertain if it will correctly mix the material. Apply the mixed product by pumping the mixed material into the expansion joint to be repaired. Remove any excess material with a putty knife or similar tool after the material has set up enough to cut through with a razor scraping toll. Maintain temperatures within the recommended ranges during the application and curing process. When temperatures are lower, allow more time for this material to cure.

## 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 or crack. 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.

DO NOT POINT TUBES UPWARD AFTER THE MIXING NOZZLE HAS BEEN ATTACHED AND PRODUCT HAS BEEN DISPENSED AS THIS MAY CAUSE MATERIAL TO FLOW BACK INTO THE TUBES AND CAUSE CLOGGING OR GELATION.

Because of the quick cure time for this product, it is best to work with one small area at a time. If the material is allowed to stand for more than 1 minutes after initial use, then the material in the static mixing nozzle will partially cure. If the material in the mixing nozzle is allowed to cure, then the nozzle must be removed and a new nozzle attached. The material in the individual tubes are unaffected by the curing of the product in the nozzle.

Color stability may be affected by environmental conditions such as high humidity or chemical exposure. Product may discolor if exposed to certain types of light such as sodium vapor lighting. Product is not UV color stable.

Color may vary slightly from tube set to tube set.

Color of material applied in a joint may exhibit some cloudiness in some areas and more clarity in others.

Substrate temperature must be $5^0$ F above dew point.

All new concrete must be cured for at least 30 days prior to application.

When applying material in cold areas, make sure the surface is clean and dry. Also, it is best to keep the material at normal room temperature.

Always apply a test area and become familiar with the amount of time available before the product begins to cure as well as to evaluate the suitability for the product in the area where the product is to be used.

Physical properties are typical values and not specifications.

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**APPLIED POLYMER SOLUTIONS, LLC**

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