Rigid-Rock RR 1208

Applied Polymer Solutions, LLC

PRODUCT PROFILE

GENERIC DESCRIPTION **ARCTIC WEATHER EPOXY MORTAR PATCH KIT/RESURFACER -** is a three component 100% solids epoxy mortar designed for applications where temperatures are as low as minus 30 degrees F. (-30^{0}F)

RECOMMENDED USAGE Recommended for cold storage areas, freezers or general outdoor patching in the winter.

COLORS Natural

CHARACTERISTS/FINISHES

SURFACE Slight texture when unsealed

PRIMERS Self Priming for patching, none required.

TOPCOATS/FINISHES None required

TECHNICAL SPECIFICATIONS

SOLIDS BY WEIGHT 100% (mixed)

THICKNESS 1/8" or greater. For applications greater than 1" thickness, clean pea gravel can be used to extend yield.

VOLITALE ORGANICS Zero pounds per gallon

MIX RATIO Part A: .21 Gallons / Part B: .1 Gallons / 13 lbs of silica aggregate (Volume and Weight Approx)

APPLICATION TEMP -30°F - 40°F (-34°C - 4C°)

CURE SCHEDULE

Cure State	30°F (-1°C)	70°F (21°C)
Pot Life	15 minutes	2-4 minutes
Light Traffic/Recoat	5-6 hours	2-3 hours
Full Cure/Heavy Traffic	8-10 hours	5-7 hours

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

SHELF LIFE 2 years in an unopened container

PACKAGING All kits are premeasured, ready for blending and application

Size	Cubic Feet	Coverage @ 1/8"	Coverage @ 1/4"
18 lb. kit - 2 gal. bucket	.1 cu. ft.	10 sq. ft.	5 sq. ft.
Bulk Kit	2.5 cu. ft	Deep Fill Application	Deep Fill Application

**Liquids only packaging available*

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	11,000 psi @ ASTM D695
FLEXURAL STRENGTH	15,000 psi @ ASTM D790
TENSILE STRENGTH	8,900 psi @ ASTM D638
BOND STRENGTH	>350 psi (concrete failure)
IMPACT RESISTANCE	Excellent
ABRASION RESISTANCE	Excellent
ULTIMATE ELONGATION	3.4%
HEAT DEFLECTION TEMP	56°F @ ASTM D648
VISCOSITY	A:900-1,000 cps/B:200 cps
WEATHERING	Good (chalks)

CHEMICAL RESISTANCE

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

CONCRETE Aggressively shot-blast or mechanically prepare the substrate to properly profile the substrate and remove hardeners, curing compounds, sealers, laitance and other contaminants. All edges and around columns or beams should be mechanically scarified. All termination points should not be feather edged, but should be saw cut with the termination ending at the sawcut.

FILLING & PATCHING Voids, cavities, nail and bug holes should be filled with a recommended epoxy filler. All large cracks should be V cut and filled with an appropriate semi-rigid epoxy crack filler.

JOINTS All expansion joints should be filled with an appropriate joint filler. When overlaying an expansion joint, a single saw cut through the epoxy overlay will prevent random fracturing.

APPLICATION

MIXING It is important that the liquids be mixed together first. Have the liquids at normal room (70 degrees) temperature and then take them into the area where the repair is to be made. CAUTION! This material has a very, very short pot life; be prepared to work efficiently and in an organized manner. Mix the liquids in an oversized container quickly and thoroughly until streak free. After the liquids are mixed, add in the aggregate immediately. Mix in the aggregate with slow speed mixing equipment such as a jiffy mixer (quickly). No induction time is necessary. Mix only an amount of material that can be used in the prescribed pot life period.

THICKNESS Apply the mixed material at 1/8 to 1/4 inch thickness. Apply the material with a hand trowel or other suitable application equipment. Do not over-trowel the material as this may cause isolated blisters to form. Direct air currents above or across the mortar during the curing process may cause isolated blisters to form. Maintain temperatures within the recommended ranges during the application and curing process.

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APPLICATION (CONTINUED)

RECOAT/TOPCOAT No recoating or topcoating is necessary. Contact your sales representative for suitable topcoat selections.

CLEAN UP Uncured product can be cleaned up with soap & water, citrus based cleaners, alcohol or other 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.

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