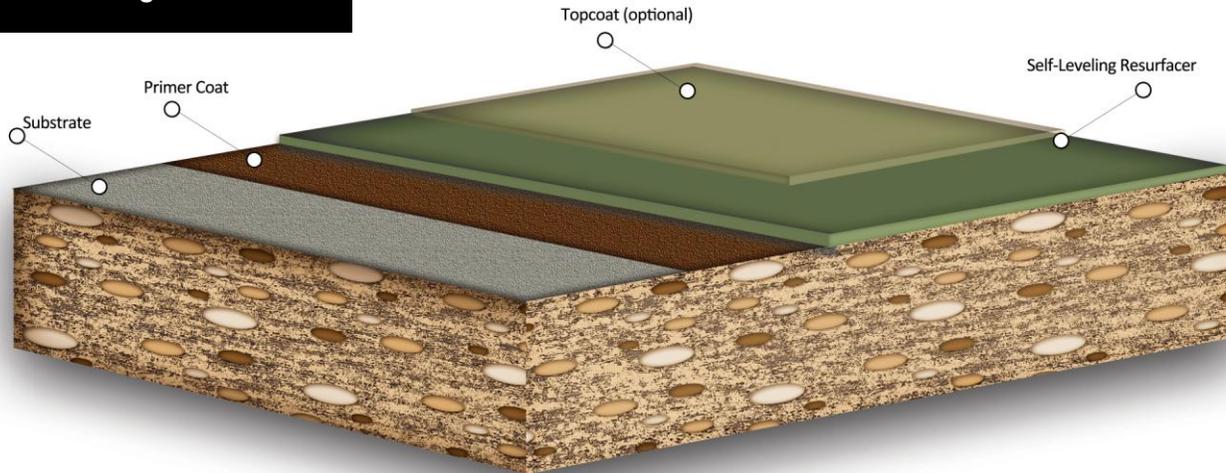


RIGID-ROCK RS-01SL – Self-Leveling Epoxy Mortar Flooring System

Self-Leveling Resurfacer



Epoxy Mortar Flooring System is a self-leveling, high strength concrete resurfacing material. It is used for environments requiring a highly smooth industrial grade floor or when a concrete floor has sustained damage requiring a 1/16” to 1/8” surface restoration.

The system described is APS’s standard system, APS has several other product options that also work for this system including, but not limited to low odor or low VOC products. Consult your sales representative for details.

BENEFITS

- Resurfaces and repairs damaged or inferior concrete floors
- Very smooth, highly cleanable surface.
- Great physical strengths
- Highly chemical resistant
- Excellent wear characteristics
- Specially blended aggregate engineered for quicker, easier, and smoother application
- Available in full APS colors
- Pre-Measured packaging to ensure proper blendign

APS also has available several crack fillers, joint sealant and other support products. Please inquiry with your sales representative for more information on these products.

See individual component product data sheets for specific product properties. Refer to individual data sheets for preparation, mixing and application instructions and limitations, warranty and common chemical resistance information.

RECOMMENDED FOR

- Industrial or manufacturing areas
- Pharmaceutical manufacturing
- Commercial Areas
- Auto repair shops
- Aeronautical hangars
- Animal care areas
- Anywhere a solid color concrete resurfacer is desired

SYSTEM COMPONENTS (approx 3/16” to 1/4”)

Coat	Product	Mix Rate	Coverage
Primer	ST 3105 Water-based Epoxy	4:1	200 to 267 sf/gal
Mortar	RR 1005 Epoxy Mortar	2:1	65 sf @ 1/16” 32 sf @ 1/8”
Wear Coat	ST 3331 High Performance Urethane	2:1	320 to 500 sf/gal

Multiple Options Available

PHYSICAL PROPERTIES

Property	Test Method	Result
Adhesion		340 psi concrete failure
**Flexural Strength	ASTM D790	12,400 psi
**Compressive Strength	ASTM D695	10,600 psi
**Tensile Strength	ASTM D638	8,100 psi
**Elongation		3.1%
Impact Resistance		Excellent
Abrasion Resistance	CS-17 1000/500	23 mg
Application Temperature		65° to 90° F

See individual component product data sheets for specific product properties (**neat resin)

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PRODUCT STORAGE: Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be above 55°F to prevent product crystallization.

SURFACE PREPARATION: All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. We recommend that an aggressive shot blast be performed prior to the application of this product. A less adequate method would be acid etching, but the etch should properly profile the substrate. 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 saw cut. All large cracks should be V cut and filled with an appropriate crack filler. 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. A test should be made to determine that the concrete is dry; this can be done by placing a 4'X4' 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. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

PRIMER MIXING: Mix the liquids in an oversized container thoroughly and until streak free. No induction time is necessary. The mix ratio is two to one by volume. Improper mixing may result in product failure.

PRIMER APPLICATION: Apply the mixed material to the substrate with a brush or roller at the recommended thickness. Follow the procedures for placing the epoxy mortar overlay from the appropriate technical data sheet. Maintain temperatures within the recommended ranges during the application and curing process. If the epoxy primer tacks off before applying the epoxy mortar overlay, check for an epoxy blush and clean as necessary.

CLEANUP: Use xylol

MORTAR MIXING: This product has a mix ratio of 9.1# part A to 4.25# part B and 20# mixed aggregate. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two liquid parts are combined, add in the provided aggregate and mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and again re-mix. The material in the transfer pail is now ready to be applied on the primed substrate. Re-mix occasionally to prevent settling of aggregate. Improper mixing may result in product failure.

MORTAR APPLICATION: The mixed material can be applied by a serrated squeegee at the recommended thickness, then back roll (very lightly) with a conventional roller tool. After thickness spread is achieved, use a spiked air release roller to remove any trapped air bubbles. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. Once cured, sand the surface to remove any missed air bubbles or contaminants that settled during curing. Vacuum and/or wash the sanded surface to remove any dust.

CLEANUP: Use xylol

TOPCOAT (Wear Coat) PRODUCT MIXING: This product has a two to one mix ratio by volume, mix two gallons of part A with 1 gallon part B. (volumes approximate) 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. Avoid whipping air into the coating. Improper mixing may result in product failure.

TOPCOATING GROUT COAT: After the grout coat has cured, Coat before 24 hours to achieve proper bonding. If topcoating after 24 hours, it would be recommended that you degloss the grout coat before applying the optional topcoat. The mixed material can be applied by brush or roller. Maintain temperatures within the recommended ranges during the application and curing process. It is best to maintain a wet edge to avoid roller marks. Direct sunlight or high temperatures may cause visible roller marking during application. Too thick of an application may result in product failure. Exposure to certain types of lighting such as sodium vapor lights may cause the product to discolor.

CLEANUP: Use xylol.

FLOOR CLEANING: 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.

RESTRICTIONS: 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.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your 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 YOU WILL OBTAIN 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 shall 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 delivery of our product means that you have accepted 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 PRECAUTIONS TO PREVENT BODILY HARM.**