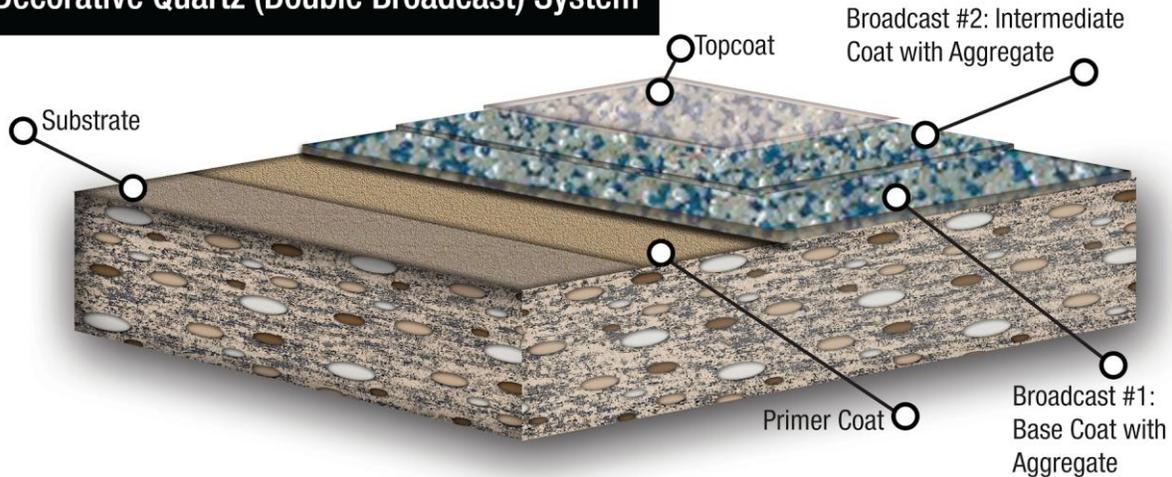


Decorative Quartz (Double Broadcast) System



Rigid-Rock RR 5000 Series Decorative Quartz Broadcast Systems are a decorative, multi-lift, high strength concrete resurfacing system. It is used for environments requiring an attractive, high performance floor or when a concrete floor has sustained damage requiring a textured 1/16" or 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

- Delivers a range of texture variations depending on thickness or number of grout coats
- Great physical strengths
- Highly chemical resistant
- Excellent wear characteristics
- Specially blended colored aggregates create a variety of decorative colored looks
- Gardner 1 (clear) epoxies available
- Typical application of approximately 1/8"

RECOMMENDED FOR

- Laboratories
- Pharmaceutical manufacturing
- Commercial areas
- Restrooms and locker rooms
- Schools
- Animal care areas
- Kitchens
- Anywhere an aesthetic concrete re-surfacer is required

*Refer to individual data sheets for preparation, mixing and application instructions as well as product limitations, limitations to liability, warranty information, and common chemical resistance information.

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

*See individual component product data sheets for specific product properties.

SYSTEM COMPONENTS (approx 1/8"th^{ty})

Coat	Product	Mix	Coverage
Primer	ST 3105 Water Based Epoxy	4:1	267 sf/gallon
	ST 4107 – (Solid) or ST 4157 – (Clear) Seamless Epoxy	2:1	90-160 sf/gallon
Base Coat – Solid Color or Clear	Quartz Blend	Per Application:	0.5 – 0.7 lbs/ sq. ft.
Aggregate (2 lifts)	Quartz Blend	Per Application:	0.5 – 0.7 lbs/ sq. ft.
Top	ST 3320 High Performance Urethane	2:1	320-500 sf/gallon

Multiple Options Available

PHYSICAL PROPERTIES		
Property	Test Method	Result
Adhesion		425 psi (concrete failure)
Flexural Strength	ASTM D790	7,400 psi
Compressive Strength	ASTM D695	11,200 psi
Tensile Strength	ASTM D638	psi
Elongation		4.1%
Impact Resistance		60 inch lbs. direct
Abrasion Resistance	CS-17 1000/500	22-36 mg
Gloss	Glossmeter	>70
Application Temperature		55° to 90° F

Decorative Quartz Double Broadcast System Application and Mixing Instructions

PRODUCT STORAGE: Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degree F. Keep from freezing.

SURFACE PREPARATION: Surface preparation will vary according to the type of complete system to be applied. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete has an appropriate vapor barrier. 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 does not show signs of eventual hydrostatic pressure problems that may later cause disbanding. However, the primer can be applied to a damp floor as long as there are not standing puddles.

PRIMER MIXING: This product comes pre-packaged by weight. Kits should be mixed in their entirety. If partial kits are to be used, refer to the front of this technical data for proper weight mix ratios. After the two parts are combined, mixes well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. This product is an emulsion product and should be mixed well before using.

PRIMER APPLICATION: The mixed material can be applied by brush or roller. Maintain temperatures within the recommended ranges during the application and curing process. Apply material with relative humidity within the parameters shown on the technical data. When the end of the pot life has been reached, you will find that the material becomes hard to apply and will actually tend to roll back up onto the roller. Do not try to continue application when the coating has reached this step. Applications made at different times with differing environmental conditions, may show slight variations in gloss.

TOPCOATING THE PRIMER: When you topcoat the primer, you must first be sure that all of the solvents and water have evaporated from the coating during the curing process. The information on the front side of the individual data sheet are reliable guidelines to follow. However, it is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Always remember that colder temperatures will require more cure time for the product before topcoating can commence. Before topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to topcoating or recoating. A standard type detergent cleaner can be used to remove any blush.

PRIMER CLEANUP: Use PM solvent

BODY COAT MIXING: This product has a mix ratio of 9.0# part A to 4.15# part B. 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 parts are combined, 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 remix. The material in the transfer pail is now ready to be applied on the primed substrate. Improper mixing may result in product failure.

BODY COAT & BROADCAST APPLICATION: The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating. While the applied material is still wet, broadcast the appropriate colored sand by hand in an upward motion until the sand is applied to excess. Do not throw the sand downward, as this might cause uneven ridges to form. After the product has cured, remove excess and loose colored quartz by a broom or with a vacuum.

BODY COAT CLEANUP: Use xylol.

2ND BODY COAT & BROADCAST APPLICATION: (RR 5018 & RR 5118) Repeat the body coat and broadcast application and allow to cure before topping with the grout coat.

GROUT COAT MIXING: This product has a mix ratio of 9.0# part A to 4.15# part B. Standard packages are in pre-measured kits and should be mixed as supplied. We 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. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the double broadcast application. Improper mixing may result in product failure.

GROUT COAT APPLICATION: The grout coat application will determine the texture of the overall system applied. For a more textured system, apply less liquids. For a smoother system application, apply a heavier build of the grout coat liquids. The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable serrated or flat squeegee and then back rolled as long as the appropriate thickness is accomplished. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating.

OPTIONAL WEAR COAT:

After the grout coat application has cured, an optional urethane topcoat can be applied. This product has a two to one mix ratio by volume- (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. After mixing, 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. Too thick of an application may result in product failure. Exposure to certain types of lights such as sodium lights may cause the product to discolor. Read individual Technical data sheets for more details

FLOOR CLEANING: Test each cleaner in a small area. 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.**