HYBRI-FLEX™ MQ SYSTEM

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HYBRI-FLEX® MQ

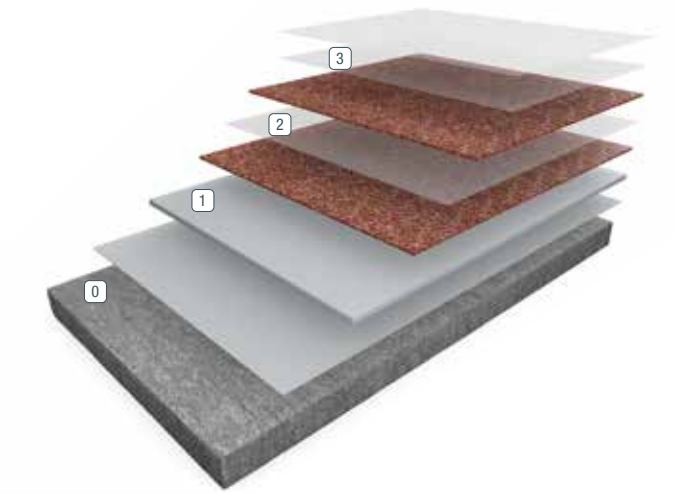
Hybri-Flex MQ is a 100% reactive, nominal 3/16" – 1/4" decorative quartz system composed of a Poly-Crete SL body coat with a decorative quartz broadcast. MMA is used for the broadcast and topcoats, providing for excellent chemical, UV and wear resistance.

BENEFITS

- Self-leveling — A uniform, more even floor system
- Wear/chemial resistant — High-quality topcoat for superior wear and chemical resistance
- Moisture mitigating — Can be applied to high moisture concrete and is capable of handling high soluble ion (salts) contamination, reducing the risk of moisture-related coating failures
- Quick cure — Accelerated curing time as fast as 1 hour per coat
- Slip resistant — Textured finishes aid in a safer floor, even when wet
- Thermal cycling resistant — Usable in environments with thermal cycling or changes in temperature

USES

- Restaurants
- Veterinary facilities
- Pharmaceutical plants
- Retail
- Exterior applications
- Pool decks
- Schools
- Supermarkets



0 **Primer**

1 **Base Coat/Broadcast**

2 **Second Broadcast**

3 **Grout/Seal Coat**

FEATURED COLORS


Blue Slate


Night Sky


New Granite


Brisket


Brindle


Americano


Lagoon


Autumn Spice


Seascape


Cardinal


Mud Pie


Prairie

Unlimited standard and custom blends available. Please see Deco Quartz Color Cards for the extensive collection of standard blends or use our Flooring Visualizer Tool to create your own custom blend at floorvisualizer.sherwin-williams.com. This reproduction approximates the actual color. Factors such as the type of product, degree of gloss, texture, size and shape of the area, lighting, heat or method of application may cause color variance. Contact your Sherwin-Williams representative for details.

ABOUT CHEMICAL RESISTANCE

Sherwin-Williams High Performance Flooring offers a broad range of systems to accommodate nearly every industrial, commercial and institutional setting. Each flooring system includes a standard chemical-resistant topcoat or surface proven to perform under typical conditions.

Important considerations:

- The combination of cleaning solutions, sanitizing chemicals, processing substances and products found in any operational setting is unique.
- Knowing exactly which materials are present — as well as their concentrations and typical exposure times before cleanup — is critical for proper flooring system selection.
- During the specification process, a flooring system's standard chemical-resistant topcoat may get replaced with one better suited to unique facility conditions.

The ability of a flooring system to perform as designed relies heavily on proper selection. Matching each use case with the right chemical-resistant flooring is key to having a facility looking great and functioning at peak level over the long term.

See our Chemical Resistance Guide and other technical resources on our website. Connect with a Sherwin-Williams High Performance Flooring expert for help with specifying an optimal flooring system for your facility.

TYPICAL PHYSICAL PROPERTIES

Percent Reactive	100%
Hardness (Shore D), ASTM D-2240	88-92
Compressive Strength, ASTM C-109	8,300 psi
Tensile Strength, ASTM D-638	2,000 psi
Tensile Strength, ASTM D-307	1,350 psi
Tensile Elongation, ASTM D-638	7.50%
Flexural Strength, ASTM D-790	3,700 psi
Flexural Strength, ASTM C-580	2,700 psi
Flexural Module of Elasticity, ASTM D-790	4.7×10^{5}
Linear Expansion, ASTM D-696	3.5×10^{-5}
Bond Strength to Concrete	400 psi (Substrate Fails)
Indentation, MIL D-3134	.025 max
Impact Resistance, ASTM D-2794	>160
Water Absorption, ASTM D-570	0.04%
Heat Resistance Limitation (Intermittent)	160°F
Heat Resistance Limitation (Continuous)	140°F
Flammability, ASTM D-635	Self-Extinguishing
Flame Spread/NFPA-101, ASTM E-84	Class C
Abrasion Resistance (CS17 Wheel 1000 GM Load 1000 Cycles), ASTM D-4060	21 mg loss
Static Coefficient of Friction*, ANSI B101.1	> 0.6
Dynamic Coefficient of Friction - Wet*, ANSI A326.3	> 0.42
VOC Content	80-90 g/L

*Sherwin-Williams High Performance Flooring systems can be built to meet or exceed the requirements of Static or Dynamic Coefficient of Friction testing per installation. Contact your Sherwin-Williams territory sales manager or tech representative for more information on alternative textures, grit/grip additives, or smooth coatings for your specific environment. A sample should always be obtained and tested prior to purchase for any non-slip flooring system.

THE SHERWIN-WILLIAMS DIFFERENCE

Sherwin-Williams High Performance Flooring delivers world-class industry subject matter expertise, unparalleled technical and specification service, and unmatched regional commercial team support to our customers around the globe.

United States & Canada
sherwin-williams.com/resin-flooring
swflooring@sherwin.com

High Performance Flooring
PM-1530952-08 11/24

HYBRI-FLEX® MQ

The following information is to be used as a guideline for the installation of the Hybri-Flex MQ flooring system. Contact the Sherwin-Williams Technical Service Department for assistance prior to application.

APPLICATION INFORMATION — SURFACE PREP PROFILE CSP 3-4

VOC MIXED	APPLICATION STEP	MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT	PACKAGING
0 g/L	Primer	Poly-Crete TF	A, B & C unit	90 sq ft/unit	0.80 gal/unit
0 g/L 0	Basecoat	Poly-Crete SL 5900F	A, B & C unit To Excess	40-42 sq ft/unit 800 lbs/1000 sq ft	3.125 gal/unit 50 lbs
<100 g/L 0	Second Broadcast	Crylaflor G201 5900F	Varies by Temperature To Excess	90 sq ft/gal 500 lbs/1000 sq ft	3, 15 or 150 gals 50 lbs
<100 g/L	Grout	Crylaflor T301/T303	Varies by Temperature	90 sq ft/gal	5 or 50 gals
<100 g/L	Topcoat	Crylaflor T301/T303	Varies by Temperature	100-110 sq ft/gal	5 or 50 gals

For additional topcoat options, contact your Sherwin-Williams Representative.

IMPORTANT!

Read these instructions carefully several days prior to starting your work. Seek answers to any questions you may have before you begin. Sherwin-Williams HPF maintains a technical staff that will be glad to answer your questions and give you advice pertaining to your particular installation.

SYSTEM OVERVIEW

Hybri-Flex MQ is a 100% solids, color quartz system composed of a 1/8" Poly-Crete SL body coat with a decorative quartz broadcast. It uses a 16 mil Crylaflor G201 broadcast coat and two 16 mil Crylaflor T301/T303 topcoats, yielding a total nominal system thickness of 3/16".

SURFACE PREPARATION

Surface should be profiled, clean, dry, oil free and sound. Shot Blasting is the preferred preparation method. Please refer to the master Surface Preparation Guide for more information. Never feather edge Hybri-Flex MQ, always terminate in a keyway groove at doorways, drains and exposed edges.

MOISTURE CONCERNS

Please refer to the Floor Evaluation Guidelines in the Contractor's Center of our website for a step-by-step process to determine the condition of the concrete.

MIXING AREA

Select a convenient mix area and protect the surface from spillage by covering it with a sheet of plastic and a layer of cardboard. Be generous with the amount of space allocated for this function. The more comfortably your mixer works, the less likely you are to have a "mix error". Please refer to the Mix Station video on our website for more information.

STORAGE CONDITIONS

Poly-Crete SL must be stored dry. Exposure of the aggregate to moisture for an extended period will cause lumps. Do not allow resins to freeze. The shelf life is 6 months from the ship date in the original unopened container. Products must be stored in temperatures no less than 60°F and no greater than 85°F.

JOINT GUIDELINES

Refer to the Joint Guidelines for complete details on our website.

APPLICATION METHOD

Proper planning is essential for satisfactory appearance of the finished floor. Lay out installation in sections to allow full width to be finished in 20 minutes (@70°F) or less to assure absence of placement lines.

NOTE: For each application of material and before mixing, mark your batches to ensure you achieve your spread rate targets. This is best accomplished by dividing your target spread rate by the width of the area being coated (or your planned wet edge). Example: If your spread rate is 100 square feet and your area is 20 feet wide, you would make a mark every 5 feet (100 divided by 20 = 5).

PRIMER

In most applications, Hybri-Flex MQ does not require a primer. However, very porous substrates should be primed first with Poly-Crete TF Plus.

A. Poly-Crete TF Plus is supplied in pre-measured units consisting of one pail of resin, one container of hardener and one bag of aggregate (powder). Pour the Poly-Crete TF resin into a 2-gallon pail; scrape the bottom and sides with a mix stick to assure that all material is transferred to the mix bucket. Use the Poly-Crete pail to scrape the mix stick; never scrape the mix stick on the side of the mix pail. Measure out 0.25 fluid ounces of Poly-Crete HF Accelerator, add to the mix bucket and mix the resin and accelerator for one minute. Pour the entire Poly-Crete TF Plus hardener into the center of the mix bucket. Using a ½" 850 RPM drill with a 4" dispersion blade, mix the resin and hardener for 30 seconds. Slowly add the Poly-Crete TF Plus aggregate to the resin and hardener and mix at 850 RPM for 1 minute. **PRODUCT MUST BE MIXED WITH A 4" DISPERSION BLADE AND A ½" VARIABLE SPEED 850 RPM DRILL. *DO NOT ADD HARDENER TO RESIN UNTIL BATCH IS READY FOR MIXING*. *FAILURE TO ADD ALL POLY-CRETE TF PLUS POWDER WILL RESULT IN IMPROPER CURE OF MATERIAL***

B. Pour the entire batch onto the floor in a 4" to 6" ribbon. Use a 1/8" V-Notch squeegee to spread the material at 90 square feet per kit and back/cross roll using an 18" wide, 3/8" nap roller to ensure there are no puddles. Allow to cure for 6 hours at 70°F

BASECOAT

A. Poly-Crete SL is supplied in pre-measured units consisting of one pail of resin, one container of hardener and one bag of aggregate (powder). Pour the Poly-Crete SL resin into a metal 5-gallon pail; scrape the bottom and sides with a mix stick to assure that all material is transferred to the mix bucket. Use the Poly-Crete pail to scrape the mix stick; never scrape the mix stick on the side of the mix pail. Pour all of the Poly-Crete SL hardener into the center of the mix bucket. (If using Poly-Crete Natural SL with pigment, add the pigment to the resin and hardener.) Next, using a ½" 850 RPM drill with a 4" dispersion blade, mix the resin and hardener for 30 seconds. Slowly add the Poly-Crete SL aggregate to the resin and hardener and mix at 850 RPM for 1 minute. **PRODUCT MUST BE MIXED WITH A 4" DISPERSION BLADE AND A ½" VARIABLE SPEED 850 RPM DRILL. *DO NOT ADD HARDENER TO RESIN UNTIL BATCH IS READY FOR MIXING*. *FAILURE TO ADD ALL POLY-CRETE SL AGGREGATE WILL RESULT IN IMPROPER CURE OF MATERIAL***

B. Pour the entire batch onto the floor and spread with a ½ V notched squeegee. Each kit of Poly-Crete SL will yield 40-42 SF/kit. Check squeegee every 1,000 square feet for wear. Have a new squeegee ready to avoid interruption in the process.

C. Use a flat trowel to cut in edges, drains and around equipment. For continuity of finish and to ensure that new batches of material are blended together without transition lines, use even pressure and trowel at a low angle using a sweeping motion.

D. To remove squeegee lines and help the material level, immediately Loop Roll the material after it has been placed. The material should be rolled straight forward and back, picking up the roller with each pass; this will avoid leaving divots in the floor. After the squeegee lines have been removed, the floor should be cross rolled side to side along the entire wet edge. The final cross roll should be completed within 12 minutes of mixing the product at 70°F.

E. While wearing spiked shoes, broadcast 5900F color quartz aggregate up into the air and let it fall onto the floor. Make sure the broadcast is dispersed evenly over the entire floor area at a rate of 0.8 lbs per square foot. Wait 15 minutes from the start of the mix before beginning the broadcast and complete broadcasting within 30 minutes from the start of the mix. Do not roll or walk back into areas that have been broadcast. Allow Poly-Crete SL to cure for a minimum of 8 hours at 70°F.

F. Use a stiff bristle broom to sweep off excess aggregate. Use a vacuum to remove loose aggregate from around the edges and corners that are not accessible with a broom.

VENTILATION

Prior to any application, proper “negative pressure” ventilation must be established. Please refer to the Crylaflor Ventilation Guidelines on our website.

SECOND BROADCAST

A. Due to the short working time of Crylaflor products, mix only what can be placed in 10 minutes. Typical batch size is 1 gallon. The amount of Crylaflor Cure activator powder used is based upon substrate temperature. Be sure to use an infrared thermometer to measure substrate temperature. Refer to the Crylaflor Cure Mix Chart for appropriate amount based on ounces per gallon.

B. Measure out 1 gallon of Crylaflor G201 resin. Then measure out an appropriate amount of Crylaflor CURE based on substrate temperature. First pour the Crylaflor G201 into a 2 gallon mix pail and then add the appropriate amount of Crylaflor Cure.

C. Using a ½" 850 RPM drill with a Jiffler blade, mix the Crylaflor G201 and Crylaflor CURE for 30 seconds. ***DO NOT ADD CRYLAFLOR CURE TO CRYLAFLOR G201 UNTIL BATCH IS READY FOR MIXING***

D. Pour entire batch in a 4" to 6" ribbon along the starting area. Use a 3" chip brush to cut in along edges, doorways and drains.

E. Using a solvent resistant, 18" 3/8" nap roller, pull the material from side to side, overlapping passes every 6". Be careful not to leave any puddles. Crylaflor G201 is applied at 90 square feet per gallon over Q-28, and 50 square feet per gallon over Q-11.

F. Using a solvent resistant, 18" 3/8" nap roller, cross roll the material side to side, overlapping the previous pass with half the roller width.

G. 5900F color quartz aggregate up into the air and let it fall onto the floor. Make sure the broadcast is dispersed evenly over the entire floor area at a rate of 0.5 lbs per square foot. DO NOT OVER BROADCAST. THIS WILL INHIBIT THE CURE OF CRYLAFLOR G201. Do not roll or walk back into areas that have been broadcast. Crylaflor G201 will cure completely in 40 to 60 minutes.

H. Use a stiff bristle broom to sweep off excess aggregate. Use a vacuum to remove sand around the edges and corners that are not accessible with a broom.

TOPCOAT

NOTE: Use Crylaflor T301 for interior applications and Crylaflor T303 for exterior applications.

A. Due to the short working time of Crylaflor products, mix only what can be placed in 10 minutes. Typical batch size is 1 gallon. The amount of Crylaflor Cure activator powder used is based on substrate temperature. Be sure to use an infrared thermometer to measure substrate temperature. Refer to the Crylaflor Cure Mix Chart for appropriate amount based upon ounces per gallon.

B. Measure out 1 gallon of CRYLAFLOR T301/T303 resin. Then measure out an appropriate amount of Crylaflor Cure based on substrate temperature. First pour the Crylaflor T301/T303 into a 2 gallon mix pail and then add the appropriate amount of Crylaflor Cure.

C. Using a ½" 850 RPM drill with a Jiffler blade, mix the Crylaflor T301/T303 and Crylaflor CURE for 30 seconds. ***DO NOT ADD CRYLAFLOR CURE TO CRYLAFLOR T301/T303 UNTIL BATCH IS READY FOR MIXING***

D. Pour entire batch in a 4" to 6" ribbon along the starting area. Use a 3" chip brush to cut in along edges, doorways and drains.

E. Using a solvent resistant, 18" 3/8" nap roller, pull the material from side to side, overlapping passes every 6". Be careful not to leave any puddles. Crylaflor T301/T303 is applied at 90 square feet per gallon over 5900F, and 50 square feet per gallon over 5900C.

F. Using a solvent resistant, 18" 3/8" nap roller, cross roll the material side to side, overlapping the previous pass with half the roller width.

G. Crylaflor T301/T303 will cure completely in 40 to 60 minutes. For second topcoat, repeat instructions A-F. The coverage rate will increase to 100-110 square feet per gallon on the second topcoat.

NOTE: This product is best suited for application in temperatures between 60°F and 85°F. Crylaflor resins are flammable liquids in their uncured state. Smoking, open flames or sparks should not be permitted during the handling of the product.

IMPORTANT!

Before using Sherwin-Williams High Performance Flooring products, read and understand their accompanying Safety Data Sheet.

STANDARD TERMS AND CONDITIONS OF SALE, INCLUDING STANDARD WARRANTY APPLY - VISIT **industrial.sherwin-williams.com/na/us/en/resin-flooring** FOR THE LATEST VERSION.

CAUTION! As with all chemical products, individuals may have different reactions to exposure to specific products. This is dependent upon many factors, including the individual's personal characteristics, the size of the installation, the ventilation available, the intensity of the exposure or the length of the exposure. Individuals may experience discomfort during the installation process of one product, but not another.

In some cases this is experienced as a skin irritation and in others it is experienced as an inhalant irritation. Typically, it disappears once the exposure is eliminated. In some cases people can become "sensitized" to a product and experience the discomfort every time there is exposure without Personal Protective Equipment ("PPE").

To protect yourself from various exposures or discomfort during the mixing and application of our products, we recommend covering exposed skin including using gloves, long sleeves, safety glasses and a respirator such as the 3M 8577 P95 Universal Disposable Carbon Respirator or a cartridge respirator.

Use only as directed. KEEP OUT OF REACH OF CHILDREN.

Do not reseal moisture-contaminated hardener. This will result in carbon dioxide generation or possible violent rupture of container.

THE SHERWIN-WILLIAMS DIFFERENCE

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United States & Canada
sherwin-williams.com/resin-flooring
swflooring@sherwin.com

High Performance Flooring
HPF-1530952-08 01/25

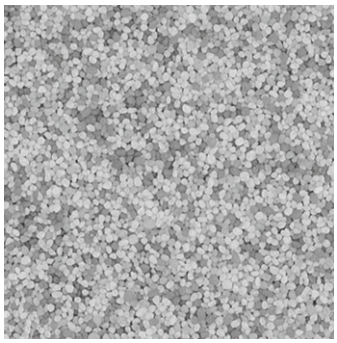
SHERWIN WILLIAMS® | HIGH PERFORMANCE FLOORING

COLOR CARD

DECO QUARTZ

DECORATIVE RESINOUS FLOORING

Decorative colored quartz aggregates combine with resins to create a unique design while providing a slip-resistant and hard-wearing protective floor solution. These system blends are completely customizable and ideal for healthcare, laboratory, food service, locker room areas and more.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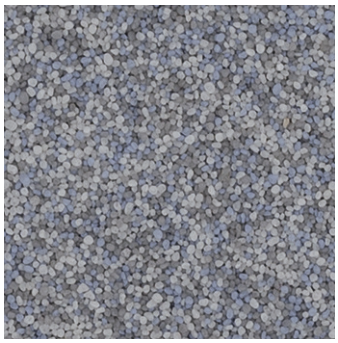
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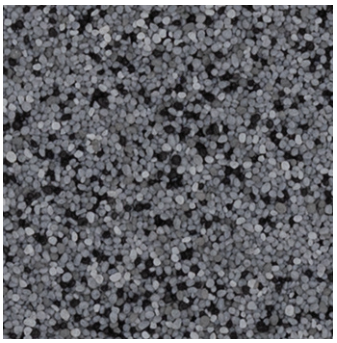
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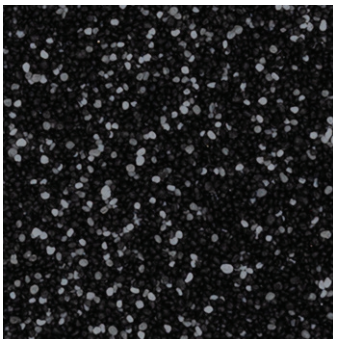
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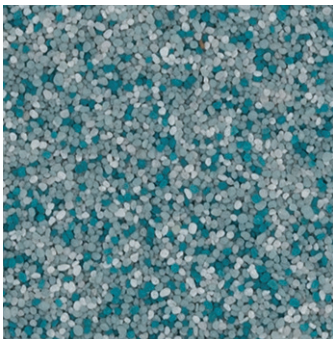
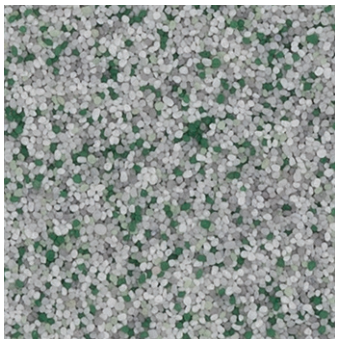

Lagoon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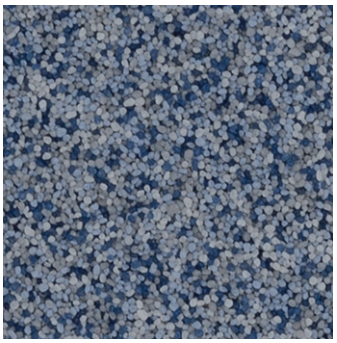
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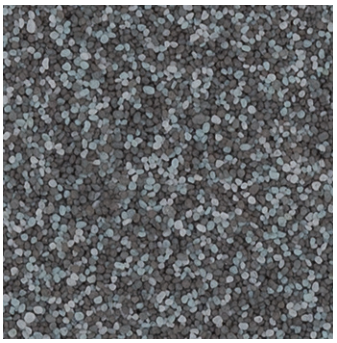
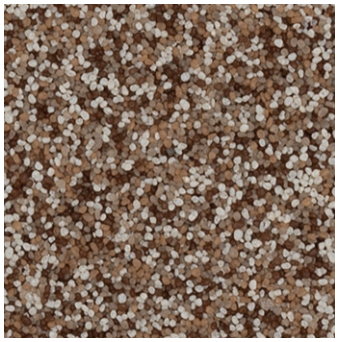
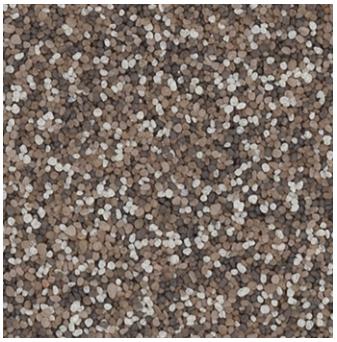

Anvil


Caterpillar


Americano


Mud Pie


Brisket

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United States & Canada
sherwin-williams.com/resinflooring
coatings@sherwin.com

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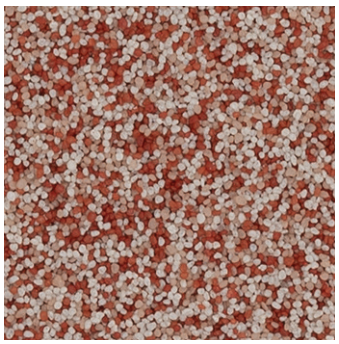
SHERWIN WILLIAMS® | HIGH PERFORMANCE FLOORING

COLOR CARD

Brindle

Mojave

Autumn Spice



Redwood

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