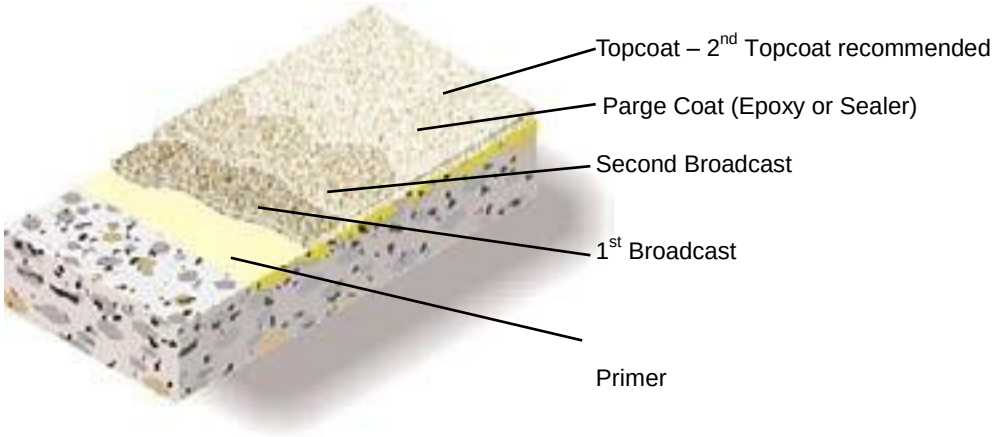
Color Quartz
Decorative Broadcast

Mckinnon Materials Color Quartz decorative broadcast is an 1/8" system which incorporates decorative colored quartz aggregates with high solids epoxy resins and chemical resistant grout and seal coats to form a protective surfacing system which is aesthetically pleasing, durable and resistant to wear, staining and chemicals.

1/8" System



Advantages

- Aesthetically pleasing appearance
- Limitless color options
- Durable, wear and slip resistant
- Chemical and stain resistant
- Optional waterproofing and/or membrane
- VOC Compliant, Low odor (with appropriate topcoat)
- Available with an anti-graffiti topcoat

Uses

- Commercial kitchens (areas where temperature will not exceed 160ºF in service)
- Animal Care
- Clean rooms
- Pharmaceuticals
- Locker rooms and restrooms
- Packaging and storage areas

Typical Physical Properties

Color	Pre-Blended Standard Colors Custom Color Blends Available
Hardness @ 24 hours, Shore D ASTM D 2240	70/80
Compressive Strength ASTM C 579	10,000- 13,000 psi
Tensile Strength ASTM D 638	4,000- 10,000 psi
Abrasion Resistance ASTM D 4060, CS-17 Wheel, 1,000 cycles	40 mgs lost
Sheer Bond Adhesion to Concrete ASTM C 580 ASTM D 790 (Flex test) 11,000 psi Tensile Elongation (ASTM D 638)	300 psi 4,000- 5,000 psi 9,500- 10-30%
Flammability	Non-Volatile
Resistance to Elevated Temperatures MIL-D-3134J	No slip or flow at required temperature of 170ºF

Installation

McKinnon Materials, Inc. materials shall only be installed by approved contractors. The following information is to be used as a guideline for the installation of the Color quartz Decorative Broadcast System. Contact the Technical Service Department for assistance prior to application.

Surface Preparation — General

McKinnon Materials, Inc. systems can be applied to a variety of substrates, if the substrate is properly prepared. Preparation of surfaces other than concrete will depend on the type of substrate, such as wood, concrete block, quarry tile, etc. Should there be any questions regarding a specific substrate or condition, please contact the Technical Service Department prior to starting the project. Refer to Surface Preparation.

Surface Preparation — Concrete

Concrete surfaces shall be abrasive blasted to remove all surface contaminants and laitance. The prepared concrete shall have adequate surface profile.

After initial preparation has occurred, inspect the concrete for voids, peaks and other imperfections. Protrusions shall be ground smooth while voids shall be filled with a system compatible filler. For recommendations, consult the Technical Service Department.

Temperature

Throughout the application process, substrate temperature should be 45ºF – 95ºF. Substrate temperature must be at least 5ºF above the dew point. Applications on concrete substrate should occur while temperature is falling to lessen offgassing. The material should not be applied in direct sunlight, if possible.

Application Information

	Materials	Mix Ratio	Theoretical Coverage Per Coat Concrete	Packaging
Primer	E-Z Coat	2:1	150-200 sq. ft./gal	3 or 15 gallons
Colorquart Decorative Broadcast				
Industrial Clear		3:1	120-130 sq. ft. / gal	1-220 gallons
1St Broadcast Quartz		To Excess	.6 lbs. / sq. ft.	50 lb. bag
Industrial Clear		3:1	120-130 sq. ft. / gal	1-220 gallons
2nd Broadcast Quartz		To Excess	.4 lbs. / sq. ft.	50 lb. bag
Parge Coat	Industrial Clear	3:1	100 to 130 sq. ft. / gal	1-220 gallons
Seal Coat	HPU or HP105	2:1/1:3	300-400 sq. ft. / gal	1 or 3 or 15 gallons
2nd Seal Coat if required	HPU or HPU 105	2:1/1:3	300-400 sq. ft. / gal	1 or 3 or 15 gallons

Primer

Mixing and Application

1. Add 2 parts E-Z Coat Primer resin to 1 part primer cure by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.

2. E-Z Coat Primer may be applied via spray, roller or brush. Apply 5-8 mils, evenly with no puddles. Coverage will vary depending upon porosity of the substrate and surface texture.

3. Wait until primer is tacky before applying the first basecoat. If primer is not going to be topped within open time, broadcast silica sand into resin lightly but uniformly and allow to cure overnight.

First Base Coat
(Colorquartz Decorative Broadcast)

Mixing and Application

1. Add 3 parts clear industrial resin to 1 part industrial cure by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform.

2. Immediately pour the mixed material onto the substrate and pull out using a 10 Mil squeegee and cross roll with a 3/8" nap roller at a spread rate of 120-150 square feet per gallon.

3. Allow material to self-level 10-15 minutes. Begin evenly broadcasting the quartz into wet resin much the same as grass seed is spread. Granules may be spread by hand or mechanical blower but should be broadcast in such a way that the granules fall lightly into resin without causing the resin to move. Continue broadcasting to excess until the floor appears completely dry.

4. Allow to cure (Cure times vary depending on environmental conditions), sweep off excess granules with a clean, stiff bristled broom. Clean granules can be saved for future use. All imperfections such as high spots should be smoothed before the application of the second broadcast.

Second Broadcast
(Colorquartz Decorative Broadcast)

Mixing and Application

1. Add 3 parts industrial resin to 1 part industrial cure by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform.

2. Immediately pour the mixed material onto the substrate and pull out using a flat squeegee and cross roll with a 3/8" nap roller at a spread rate of 100-150 square feet per gallon.

3. Allow material to self-level 10-15 minutes. Begin evenly broadcasting the quartz into wet resin much the same as grass seed is spread. Granules may be spread by hand or mechanical blower but should be broadcast in such a way that the granules falls lightly into resin without causing the resin to move. Continue broadcasting to excess until the floor appears completely dry.

4. Allow to cure for 24 hours, sweep off excess granules with a clean, stiff bristled broom. Clean granules can be saved for future use. All imperfections such as high spots should be smoothed before the application of the seal coat.

NOTE: Quartz Granule distribution is critical to the success of the application. The decks finished appearance depends on the manner in which the granules have been applied. In grass seed like fashion, allow the granules to fall after being thrown upward and out. **DO NOT THROW DOWNWARD AT A SHARP ANGLE USING FORCE.** (Cast lines could develop.)

Parge Coat

Mixing and Application

1. Add 3 parts industrial resin to 1 part industrial cure by volume. Mix with low speed drill and jiffy blade for three minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.

2. Apply clear industrial epoxy using a flat trowel or squeegee and back roll with a 1/4" nap roller. Apply at a spread rate of 100 square feet per gallon evenly with no puddles making sure of uniform coverage. Two coats may be required. **Take care not to puddle materials and insure even coverage.**

3. Allow to cure (Cure times vary depending on environmental conditions).

Top Coat
(Water-reduced HP105 or HPU)

Mixing and Application

Refer to HP105 data sheet.

Warranty

McKinnon Materials warrants its products to conform to its manufacturing standards. McKinnon Materials will replace or refund the purchase of non-conforming product at the seller's option; such remedy being exclusive of all others and sole remedy available to the buyer. Buyer hereby expressly waives claim to additional damages. Any claim under this warranty must be made in writing within 7 days of discovery of non-compliance and no later than two years from the date of delivery of product. No representative, distributor or applicator of these products is authorized to modify product, product data or warranty.

Important Notice

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Disclaimer

The information and recommendations set forth in this document are based upon tests conducted by or on behalf of the McKinnon Materials, Inc. Such information and recommendations set forth herein are subject to change and pertain to the product(s) offered at the time of publication. Published technical data and instructions are subject to change without notice.

Consult www.mckinnonmaterials.com to obtain the most recent Product Data information and Application instructions.