



Quartz Aggregate Broadcast

1/16 Inch Colored Quartz Broadcast System

Description

1/16 Broadcast System is aesthetically pleasing and durable flooring option for commercial and industrial applications. Quartz sand is a pure crystalline silica or quartz aggregate with a state of the art ceramic color coating that is abrasion resistant and chemically inert. Its high density and hardness can hold up to heavy traffic and abuse. When used in conjunction with ADVACOAT Polyaspartic coating materials, a seamless, highly abrasion and chemical resistant surface is created.

ADVACOAT's Quartz aggregate broadcast systems can maintain their appearance and integrity for years on end. This floor coating system can be installed in a single day with a minimum return to service after 5 hours.

1/16 Broadcast System can incorporate 14 standard aggregate colors, and 18 standard aggregate color blends. Unique color combinations using the standard aggregate colors can achieve a one of a kind flooring option.

Surface Preparation

A profile of CSP 2-CSP 3 is recommended for this system application. Ensure the substrate is free of contaminants, and the pores are open to allow penetration of the surface. Shot blasting is not required for proper adhesion, but may be used to achieve a CSP 3 profile. When diamond grinding for preparation, using 20-40 grit diamonds is recommended.

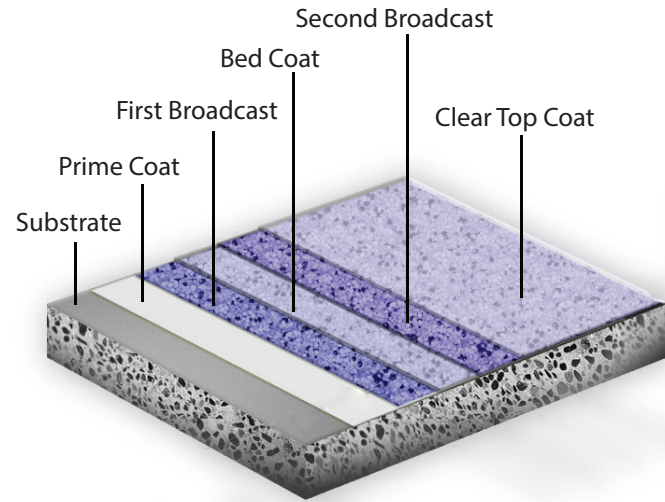
Moisture Tolerance

This system requires a dry substrate. Any moisture vapor transmission test revealing over 3.5 pounds per 1000 feet/24 Hours requires a moisture barrier system installed prior to application. See ADVACOAT Moisture Lok or ACC EMB Epoxy Moisture Barrier.

Application

System Specification Outline:

- 1 - (Optional) Moisture Barrier - ACC EMB
- 2 - ACC 75 Coat Pigmented - S Grade Quartz broadcast to refusal
(Or) ACC 75 Coat Pigmented - S Grade Quartz broadcast 60%
- 3 - ACC 75/ACC 103 Coat Clear - S Grade Quartz broadcast to refusal
- 4 - ACC 75/ACC 103 Coat Clear - Flat Squeegee
- 5 - (Optional) ACC 75/ACC 103 Coat Clear



System Advantages

- USDA, FDA and CFIA Acceptable
- UV Stable and Resistant
- Smooth to Coarse Finish Options
- Slip Resistant in Wet Areas
- Extremely Durable
- Long Life Expectancy
- Large Color Selection
- Chemical Resistant
- Easily Maintained
- Excellent Wear Resistance
- Antimicrobial Top Coat Option

Typical Applications

- Restrooms
- Commercial Kitchens
- Walk-In Freezers
- Wash Down Areas
- Showers
- Locker Rooms
- Loading Areas
- Pool Decks
- Veterinary Clinics
- High Traffic Areas

Installation Instructions

Contact ADVACOAT Technical Representative Prior to installation for further instructions or details.

STEP (Optional) Moisture Barrier

Use for substrates with moisture readings of over 4LBs per 1000Sq Ft/24 hours. Mix 2 parts A Resin with 1 part B Hardener, by volume, into a clean container. Mix thoroughly with a low speed (400-600 rpm) drill motor/jiffy mixer for 3-4 minutes. Make sure to scrape the sides and bottom of the container during mixing.

ACC EMB should be applied using a flat rubber squeegee with little pressure, or 3/16" notched squeegee with heavy pressure. Apply material at a rate of 200-250 square feet per gallon, and back roll using a 3/8" non-shedding nap roller. Coverage may vary depending upon substrate. Allow adequate time for coating to dry before continuing with Step 2

STEP 2 - First Broadcast Coat (Pigmented)

Mix 1 part ACC 75 A side, with 1 part ACC 75 B side, and Aspartic Pigment in correct ratio, mix thoroughly with stir stick for 2 minutes making sure to scrape sides and bottom of container. Be sure to only mix quantity of material that can be spread within a 10 minute period.

Pour ribbon of mixed material onto area to be coated in a east to west direction, when pre determined exit from area is to the south. Using a 3/16" nap non shed roller, spread material north to south ensuring proper coverage of 250-300 square feet per gallon. Spread material should be back rolled in the opposite direction (East to West) so coating material is evenly distributed without puddles or ridges.

While on spike shoes, S Grade Quartz Material should be broadcast into wet material to refusal. (A 60% Broadcast may be used for a more economical system) Allow 1-2 hours cure time, or until tack free before moving onto Step 3.

STEP 3 - Clean excess quartz from the floor with a broom. This material may be saved for future use. Using a leaf blower, make sure all remaining loose material is cleaned from the area before starting Step 4.

STEP 4 - Second Broadcast Coat (Clear)

Mix 1 part ACC 75 A side, with 1 part ACC 75 B side and (ACC 103 - 2 Parts B side to 1 Part A side) mix thoroughly with stir stick for 2 minutes making sure to scrape sides and bottom of container. Over a full refusal broadcast, pour a heavy ribbon of mixed material east to west, and spread evenly with a flat rubber squeegee in a east to west pattern, saturating the floor. As the quartz floor is

Very porous, a spread rate of 85-100 square feet per gallon should be expected. Once material is spread and floor is saturated, using a 3/8" non shed roller, back roll in a north to south pattern (Opposite of Squeegee direction), followed by a final back roll from east to west. Immediately after second back roll, broadcast quartz aggregate to refusal into wet material. Allow a minimum of 1 - 2 hours dry time before moving to Step 5.

STEP 5 - First Top Coat (Clear)

Mix 1 part ACC 75 A side, with 1 part ACC 75 B side and (ACC 103 - 2 Parts B side to 1 Part A side) mix thoroughly with stir stick for 2 minutes making sure to scrape sides and bottom of container. Over a full refusal broadcast, pour a heavy ribbon of mixed material east to west, and spread evenly with a flat rubber squeegee in a east to west pattern, saturating the floor.

As the quartz floor is very porous, a spread rate of 85-100 square feet per gallon should be expected. Once material is spread and floor is saturated, using a 3/8" non shed roller, back roll in a north to south pattern (Opposite of Squeegee direction), followed by a final back roll from east to west. Allow a minimum of 1 - 2 hours dry time before moving to Step 6.

STEP 6 - (Optional) Second Top Coat (Clear)

Mix 1 part ACC 75 A side, with 1 part ACC 75 B side and (ACC 103 - 2 Parts B side to 1 Part A side) mix thoroughly with stir stick for 2 minutes making sure to scrape sides and bottom of container. Pour ribbon of material east to west, using a 3/8" nap non shed roller and spread material north to south in a even pattern. Back roll in a east to west pattern from wall to wall, slowly moving south toward to the exit of the coated area.

Allow a minimum of 5 hours before light foot traffic, and recommended 24 hours before heavy return to service.

Coverage Rates

Step	Product	Sq Ft
Moisture Barrier	ACC EMB	160/Gal
First Broadcast	ACC 75	250/Gal
Quartz	Aggregate	3.2/LB
Second Broadcast	ACC 75/ACC 103	85/Gal
Quartz	Aggregate	3.2/LB
First Top Coat	ACC 75/ACC 103	85/Gal
Second Top Coat	ACC 75/ACC 103	250/Gal

Physical Properties

Tensile strength,	ASTM D-638	3,500 - 4,000 psi
Compressive strength,	ASTM D-695	13,500 psi
Bond strength, Concrete	ASTM D-4541	400 psi Substrate Fail
Hardness, Shore D	ASTM D-2240	74-79
Flexural strength.	ASTM D-790	3,900 psi
Abrasion Resistance, CS-17 Wheel 1000 mg. 1000 cycles	ASTM D-4060	27 mg. loss
Water Absorption	ASTM D-570	0.05%
Flammability.	ASTM D-635	Self extinguishing
UV Resistance	MIL F-52505	No chalking
VOC Content		0 g/l

Maintenance

The Quartz Aggregate Broadcast system is easily maintained with some simple steps.

1. Mix 4 gallons of hot water with 1 pint of ammonia.
2. Use a broom to remove any loose dirt or debris from the area.
3. Using a soft bristle deck brush, scrub the surface to remove any embedded dirt.
4. A flat squeegee may be used to move standing water. Use a wet vac to vacuum standing water and dispose.
5. Rinse area with clean water, and repeat step 4.

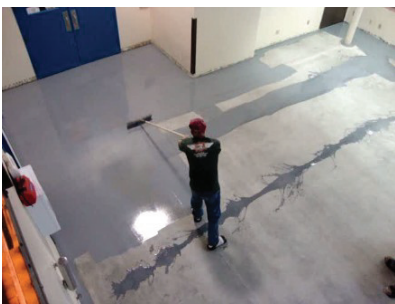
A floor finish maintenance system is not required for this application.

Additional Resources

- ACC 75 - 75% Solids Polyaspartic Product Data Sheet
 - ACC 103 - 100% Solids Polyaspartic Product Data Sheet
 - ACC 75 - 75% Solids Polyaspartic MSDS
 - ACC 103 - 100% Solids Polyaspartic MSDS
 - ACC WBU - Waterborne Urethane Product Data Sheet
 - ACC WBU - Waterborne Urethane MSDS
 - ACC EMB - Epoxy Moisture Barrier Product Data Sheet
 - ACC EMB - Epoxy Moisture Barrier MSDS
 - ADVACOAT Quartz Aggregate Broadcast Specification Sheet
- www.Advacoat.com

Optional Products

ACC Waterborne Urethane may be used as a second or third top coat in this system. Utilizing the Waterborne Urethane will add extra wear resistance, or protection to the flooring system. Contact ADVACOAT for more information.



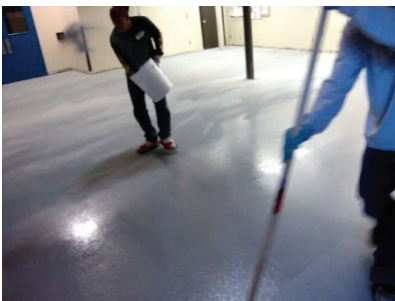
First Broadcast Coat Pigmented



Broadcast



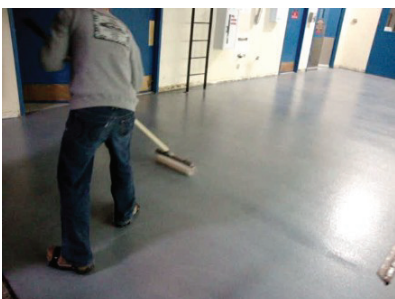
Second Broadcast Coat Clear



Broadcast



First Clear Coat



Second Clear Coat