

RESUFLOOR™ AQUA DECO QUARTZ DB

Resufloor Aqua Deco Quartz DB offers historical advantages of epoxy quartz flooring with integral protection against loss of bond due to moisture vapor issues for slabs on grade.

BENEFITS

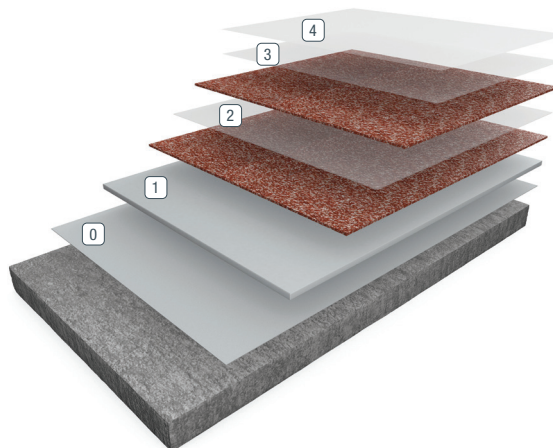
- Withstands vapor emissions
- Aesthetically pleasing appearance
- Limitless color blend options
- Satin finish
- Durable, wear and slip resistant
- Chemical and stain resistant
- Acceptable for use in USDA inspected facilities
- No moisture testing needed

USES

- Floors known or suspected to have vapor emission issues
- Commercial kitchens (areas where temperature will not exceed 170°F in service)
- Animal care
- Clean rooms
- Pharmaceuticals
- Locker rooms, showers and restrooms
- Packaging and storage areas
- Laboratories

LIMITATIONS

- Base coat must be installed at a minimum of 1/8"
- Protect from freezing



- 0 Primer
- 1 Slurry 1/8" and Broadcast (Color Quartz)
- 2 Bonding and Second Broadcast (Colored Quartz)
- 3 Grout
- 4 Topcoat

TYPICAL PHYSICAL PROPERTIES

Color	Pre-Blended Standard Colors Custom Color Blends Available
Hardness @ 24 hours, Shore D ASTM D 2240	70/65
Compressive Strength ASTM C 579	12,000 psi
Tensile Strength ASTM C 307 ASTM D 638	2,500 psi 6,000 psi
Adhesion ACI 503R	>300 psi concrete failure
Abrasion Resistance ASTM D 4060, CS-17 Wheel, 1,000 cycles	70-90 mgs lost
ASTM D 4060, CS-17 Wheel, 1,000 cycles	Withstands 16 ft lbs without cracking, delamination or chipping
Flexural Strength ASTM C 580 ASTM D 790	4,500 psi 10,000 psi
Adhesion ACI 503R	300 psi concrete failure
Flammability	Self-Extinguishing over concrete
Resistance to Elevated Temperatures MIL-D-3134J	No slip or flow at required temperature of 158°F

ASTM D = Resin only

INSTALLATION

Sherwin-Williams materials shall only be installed by approved contractors. The following information is a guideline for the installation of the **Resuflo Aqua Deco Quartz DB**. Contact the Sherwin-Williams Technical Service Department for assistance prior to application.

SURFACE PREPARATION — GENERAL

Sherwin-Williams 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 Sherwin-Williams Technical Service team prior to starting the project. Refer to Surface Preparation (Form G-1).

SURFACE PREPARATION — CONCRETE

Concrete surfaces shall be abrasive blasted to remove all surface contaminants and laitance. The prepared concrete shall have a surface profile depending upon system selected. Refer to Form G-1.

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

TEMPERATURE

Throughout the application process, substrate temperature should be 50-90°F. Substrate temperature must be at least 5°F 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. Protect material from freezing prior to installation.

APPLICATION INFORMATION — SURFACE PREP PROFILE CSP 4-6

VOC MIXED	APPLICATION STEP	MATERIAL	MIX RATIO	THEORETICAL COVERAGE	PACKAGING
<50 g/L	Primer	3460 + 20% potable water	1:4	200-250 sq. ft. / gal	1.25 gals
<50 g/L	Slurry @ 1/8"	3460	1:4	100 sq. ft. / 2.5 gal	1.25 gals
0		5150		27-30 lbs. / 2.5 gals	30 lbs.
0	1st Broadcast	5900F	To Excess	.6 lbs. / sq. ft.	50 lb. bag
<50 g/L	Bonding Coat	3561	4:1	65-70 sq. ft. / unit	1.25 - 250 gals
0	2nd Broadcast	5900F	To Excess	.4 lbs. / sq. ft.	50 lb. bag
<100 g/L	Grout Coat	3746	2:1	125 sq. ft. / gal	3 or 15 gals
<100 g/L	Seal Coat	3746	2:1	250 sq. ft. / gal	3 or 15 gals

For additional topcoat options contact your Sherwin-Williams representative.

PRIMER

MIXING AND APPLICATION

1. Premix 3460B (hardener) using a low speed drill and Jiffy® blade. Mix until uniform, exercising caution not to introduce air into the material.
2. Add 1 part 3460A (resin) to 4 parts 3460B (hardener) plus 20% potable water. Mix with low speed drill and Jiffy® blade until uniform. To ensure proper system cure and performance, strictly follow mix ratio recommendations.
3. 3460 may be applied via spray, roller or brush. Apply at 250 sq. ft. per gallon to yield 6-8 mils WFT evenly with no puddles making sure of uniform coverage. Coverage will vary depending upon porosity of the substrate and surface texture.
4. Two applications of 3460 Primer may be necessary to adequately seal and fill the surface imperfections and protect against outgassing. This can be accomplished by applying two tight, flat squeegee coats (pushing not pulling) in opposite directions at 15-20 minutes apart.

SLURRY COAT @ 1/8" / FIRST BROADCAST

MIXING AND APPLICATION

1. Premix 3460 Part B using a low speed drill and Jiffy® blade. Mix until uniform, exercising caution not to introduce air into the material.
2. Add 1 part 3460A (resin) to 4 parts 3460B (hardener) by volume. Mix with low speed drill and Jiffy® blade until uniform. Slowly add up to 27-30 lbs. of 5150 AquArmor S Aggregate per 2.5 gallons of mixed material. Mix with low speed drill and Jiffy® blade until uniform, and no lumps remain.

NOTE: Temperatures and environmental conditions may impact levelling. It is acceptable to reduce the aggregate loading up to 10% of the 5150 AquArmor S aggregate to improve levelling. Excess air movement across the surface should be avoided.

3. Immediately pour the mixed material onto the substrate and pull out using a 1/4" v-notched trowel or 1/4" red rubber squeegee.
4. Allow material to self-level, the surface should be lightly backrolled with a looped roller to help smooth. Use a spiny roller to aid in the release of air.
5. System must be broadcast with color quartz (5900F) to build to 1/8" thickness.
6. Allow to cure for 18 hours minimum before applying bonding coat. (Cure times vary depending on environmental conditions.)

BONDING COAT / SECOND BROADCAST

MIXING AND APPLICATION

1. Add 4 parts 3561A (resin) to 1 part 3561B (hardener) by volume. Mix with low speed drill and Jiffy® blade for three minutes until uniform.
2. Immediately pour the mixed material onto the substrate and pull out using a 1/4" v-notched squeegee. Cross roll with a 3/8" nap roller at a spread rate of 65-70 square feet per gallon.
3. Allow material to self-level 10-15 minutes. Begin evenly seeding the 5900F 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: 5900F Granule distribution is critical to the success of the application. The deck's 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.

GROUT COAT

MIXING AND APPLICATION

1. Add 2 parts 3746A (resin) to 1 part 3746B (hardener) by volume. Mix with low speed drill and Jiffy® mixer for three minutes until uniform. To ensure proper system cure and performance, strictly follow mix ratio recommendations.
2. Apply 3746 using flat trowel or flat squeegee and backroll with a 1/4" nap roller. Apply at a spread rate of 125 sq. ft. per gallon to yield 13 mils WFT, evenly, with no puddles making sure of uniform coverage. Take care not to puddle materials and ensure even coverage.
3. Allow to cure for 24 hours minimum before applying seal coat.

NOTE: Epoxy materials will appear to be cured and "dry to touch" prior to full chemical cross linking. Allow epoxy to cure for 2-3 days prior to exposure to water or other chemicals for best performance.

SEAL COAT

MIXING AND APPLICATION

1. Add 2 parts 3746A (resin) to 1 part 3746B (hardener) by volume. Mix with low speed drill and Jiffy® mixer for three minutes until uniform. To ensure proper system cure and performance, strictly follow mix ratio recommendations.
2. Apply 3746 using a flat trowel or flat squeegee and backroll with a 1/4" nap roller at 250 square foot per gallon evenly with no puddles making sure of uniform coverage. Take care not to puddle materials and ensure even coverage.
3. Allow to cure 24 hours minimum before opening to traffic.

CLEANUP

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvents.

SAFETY PRECAUTIONS

Refer to the SDS before use. Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

MATERIAL STORAGE

Store materials in a temperature controlled environment (50-90°F) and out of direct sunlight.

Keep resins, hardeners and solvents separated from each other and away from sources of ignition.

MAINTENANCE

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact the Sherwin-Williams Technical Service Department.

DISCLAIMER

The information and recommendations set forth in this document are based upon tests conducted by or on behalf of The Sherwin-Williams Company. 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.sherwin-williams.com/resin-flooring to obtain the most recent Product Data information and Application instructions.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams, NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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

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