

QUC-120

URETHANE CEMENT QUARTZ BROADCAST SYSTEM

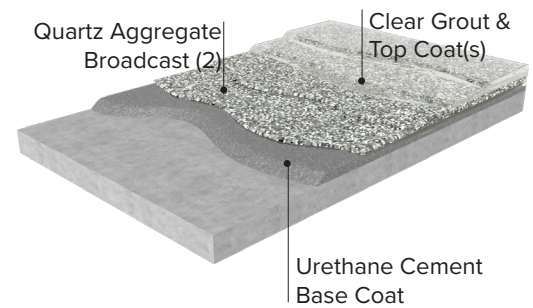
QUC-120 is an industrial strength quartz flooring application for ultra-heavy-duty applications. This system incorporates a 1/8" polyurethane concrete slurry primer, followed by a double broadcast quartz. The QUC-120 system is grouted with a water-clear and chemical resistant 100% solids epoxy and finished with an aggregate fortified high-wear urethane in either a semigloss or satin finish. Available in an unlimited number of colors and blends, this system can be modified to accommodate varying substrate conditions, installation time-frames, and coefficient of friction (traction) requirements.

Applications

- Car Dealerships
- Concourses
- Parking Garages
- Animal Facilities
- Loading Docks

Features:

- Decorative Finish
- Superior Impact Resistance
- Low odor & minimal voc
- Superior abrasion resistance & traction
- Integrated cove base available



Colors & Finishes

Available in standard Resinwerks blends, colors may be customized to match any environment. Please coordinate all sample requests with your Resinwerks representative. The system is available with a gloss or satin finish.

System Components

- 1. Base Coat / 1st Broadcast Coat:** BioCem™ SL Polyurethane Concrete applied to a thickness of 1/8". Mix Ratio: 1A:1B:1-40lb SL Filler. Broadcast quartz to rejection.
- 2. 2nd Broadcast Coat:** LevelGuard™ EP Clear 100% Solids cycloaliphatic water-clear epoxy. Mix Ratio: 2A:1B. Broadcast quartz to rejection.
- 3. Grout Coat:** LevelGuard™ EP Clear 100% Solids cycloaliphatic water-clear epoxy. Mix Ratio: 2A:1B.
- 4. Top Coat:** Kinetic™ HS (93% solids) no odor polyaspartic coating or Kinetic 85 (85% solids) polyaspartic coating. Mix Ratio: 1A:1B. For a satin finish, apply a single coat of HDC 100 urethane as a final coat.

SURFACE PREPARATION

Ensure substrate to be coated is clean, dry, and in sound condition. All laitance, curing compounds, concrete hardeners, and other surface contaminants must be removed. Prepare concrete in accordance with ASTM D 4259-83. Mechanical Shot Blasting is recommended to achieve a surface profile of ICRI CSP 3. Surface to be coated must be completely porous, thoroughly vacuumed, and free of excessive dust & contaminants.

MOISTURE IN CONCRETE

Concrete slabs should be tested prior to application for elevated moisture vapor emission levels. Resinwerks recommends ASTM F2170-19 standard for determining relative humidity in concrete slabs using RH probes. Moisture level results will determine recommended mil thickness for application.

		GENERAL SYSTEM PERFORMANCE -	
		QUC-120	
TEST TYPE			RESULT
Compressive Strength	ASTMC 695		8,000 PSI
Water Absorption	ASTMD 570		< .1%
Adhesion Pull-Off	ASTMD-4541		+500 PSI concrete fracture
Elongation / Tensile	ASTMD 638		5200 psi
Flexibility 1/4" cylindrical mandrel	ASTMD 5221		Pass
Hardness / Shore D	ASTMD 2240		90
Impact Resistance	ASTMD 4060		> 160 Inch/Lb

For Professional Use Only
Please reference all product Technical Data and Material Safety Data Sheets prior to use. Mock-ups are strongly recommended to validate appearance and performance prior to use.

DE-GREASING OF CONTAMINATED SUBSTRATES

For concrete substrates containing oil, animal fats, or other carbon based contaminants, slabs should be de-greased appropriately using an enzymatic based concrete de-greasing agent. Multiple applications may be required depending on the level of contamination.

TREATMENT OF JOINTS & CRACKS

Prior to installation of any Resinwerks primer, all joints, cracks and other substrate irregularities must be addressed. For more information on specific joint treatment procedures, please reference Resinwerks joint-treatment guidelines.

COVE BASE

For projects requiring a perimeter vertical cove base, please reference Resinwerks cove base installation guidelines or contact your local Resinwerks representative for more information.

COATING APPLICATION

1. Base Coat / 1st Broadcast Coat: BioCem™ SL

- **Mixing:** Review BioCem™ SL Data Sheet Prior to mixing. Pour 1-Part A into large mixing vessel or Hippo mixer, add pigment and mix for 15-seconds with a slow-speed mixing drill. Add 1-Part B and mix for an additional 15-seconds. Slowly add 1-Part C SL filler to mix, takings special care not to introduce air or create a vortex. Mix for 45-60 seconds until materials are properly integrated and consistent. One full SL kit will yield 52 sq. ft. @ 1/8".
- **Application:** Immediately following mixing, spread material with a rake or trowel at 1/8th" thickness. Lay abutting edges within a minimum of 10-minutes to ensure a uniform transition. Once material has been spread, back-roll immediately with a spiked or looped roller over entire surface to release surface tension.
- Broadcast quartz Aggregate to rejection at a coverage rate of 100 sq. ft. / 50 lb bag.
- Once Cured, excess quartz should be removed via broom and retained for future broadcast coats. Do not vacuum up excess quartz as it will contaminate the quartz and make it unusable for future applications. Once quartz has been removed, Thoroughly blow and vacuum up any remaining quartz/debris to prepare for second grout and broadcast coat.

2. 2nd Broadcast Coat: LevelGuard™ EP Clear

- **Mixing:** Thoroughly agitate part A prior to mixing. Mix 2-parts A to 1-Part B by volume for 2-3 minutes using a slow speed drill mixer.
- Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a notched squeegee.

Important:

Inhalation of vapor or mist can cause headache, nausea irritation of nose, throat, and lungs. Avoid breathing vapors, it is strongly recommended that respirators are worn. Prolonged or repeated skin contact can cause slight skin irritation. All epoxies have the potential of causing skin irritations or allergic reactions. Be careful not to get on skin, clothes or in eyes. Gloves are strongly recommended. If splashed in the eye, flush with warm water and contact a physician if blurring persists.

Solvent based products are extremely flammable, extinguish all pilot lights and sources of ignition such as electrical motors. Be sure to have adequate cross ventilation prior to installing.

Resinwerks recommends the use of slip-resistant additives in all coating systems that are subject to heavy foot traffic and especially those within wet or oily environments It is the end-user's responsibility to provide flooring that meets current safety standards and local coefficient of friction requirements. Resinwerks nor any of its distributors are responsible for injury resulting from any slip and fall incident.

Standard recommended coverage is 100 sq. ft. per gallon.

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3. Grout Coat: LevelGuard™ EP Clear

- **Mixing:** Thoroughly agitate part A prior to mixing. Mix 2-parts A to 1-Part B by volume for 2-3 minutes using a slow speed drill mixer.
- Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a notched squeegee. Standard recommended coverage is 100 sq. ft. per gallon.
- Immediately back-roll with a non-shedding roller. Use a brush or small roller to cut-in along perimeter walls or any other obstructions.

4. Top Coat: Kinetic™ HS Polyaspartic

- **Mixing:** Mix 1 part A with 1 part B for approximately 2 minutes with a slow-speed drill mixer, taking care not to induce any air or create a vortex.
- **Application:** Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a notched squeegee. Standard recommended coverage is 150 sq. ft. per gallon. Immediately back-roll with a non-shedding roller. Use a brush or small roller to cut-in along perimeter walls or any other obstructions. Avoid applying polyaspartic too thick to avoid a milky appearance. For a satin finish, apply a single coat of HDC 100 urethane as a final coat.