

QF-100

SEAMLESS QUARTZ BROADCAST SYSTEM

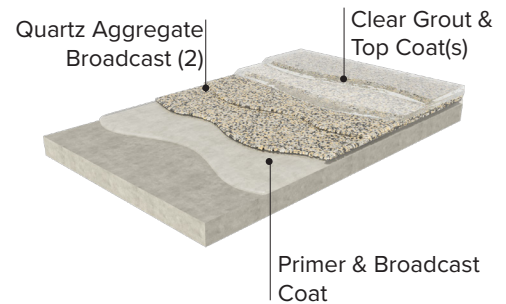
QF-100 is a heavy-duty, double broadcast, seamless quartz flooring application that incorporates a vapor barrier epoxy for protection against elevated moisture vapor emissions. This system combines high quality, crystal clear epoxies with a performance polyaspartic topcoat for long-term durability. Available in an unlimited number of colors and blends, the system can be modified to accommodate varying substrate conditions, installation time-frames, and coefficient of friction (traction) requirements. With a thickness of approximately 1/16", QF-100 ranks among the most commonly specified systems for heavy-traffic commercial and industrial environments.

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. Primer:** Vapor Barrier Epoxy - 100% Solids pigmented epoxy. Mix Ratio 2A:1B
- 2. 1st Broadcast Coat:** LevelGuard™ Clear 100% Solids cycloaliphatic water-clear epoxy. Mix Ratio: 2A:1B. Broadcast quartz aggregate to rejection.
- 3. 2nd Broadcast Coat:** LevelGuard™ Clear 100% Solids cycloaliphatic water-clear epoxy. Mix Ratio: 2A:1B. Broadcast quartz aggregate to rejection.
- 4. Grout Coat:** LevelGuard™ Clear 100% Solids cycloaliphatic water-clear epoxy. Mix Ratio: 2A:1B.
- 5. Topcoat:** Kinetic™ HS (93% solids) no odor polyaspartic coating or Kinetic™ 85 (85% solids) polyaspartic coating. Both are available in standard, as well as slow-set version. Mix Ratio 1A:1B. For a satin finish, apply a single coat of HDC 100 urethane as a final coat.

GENERAL SYSTEM PERFORMANCE - QF-100

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.

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 2. 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.

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. Primer: Vapor Barrier Epoxy

- **Substitutions:** Depending on substrate conditions, primer may be substituted for Resinwerks WBE 500 or Resinwerks Rapid H2O EP. See corresponding Technical Data Sheets for mixing and application instructions.
- **Mixing:** Review Vapor Barrier Epoxy Data Sheet Prior to mixing. Mix 2 parts A to 1 part B for 2 minute using a slow speed drill mixer. (2A:0.75B for Fast Cure VBE hardener)
- **Application:** Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a notched squeegee. Standard recommended coverage is 130 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.
- **ALWAYS MIX VAPOR BARRIER EPOXY IN METAL BUCKETS**

2. 1st Broadcast Coat: LevelGuard™ Clear EP

- **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 160 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.
- 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

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.

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 broadcast coat.

3. 2nd Broadcast Coat: LevelGuard™ Clear EP

- **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.
- 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 projects. Once quartz has been removed, Thoroughly blow and vacuum up any remaining quartz/debris to prepare for grout coat. Any excess quartz that was vacuumed should be discarded.

4. Grout Coat: LevelGuard™ Clear EP

- **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.

3. Top Coat: Kinetic™ HS Polyaspartic

- Kinetic™ HS may be substituted for Kinetic™ 85 or standard Kinetic depending on project requirements.
- **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.

