

## Floroquartz BC Epoxy Quartz Flooring

**Product Description:** Floroquartz is a decorative and durable aggregate-filled system. It provides a slip and impact resistant surface with exceptional strength and wear characteristics.

**Typical Uses, Applications:** Ideally suited for commercial, industrial and institutional applications, such as:

- Locker rooms and lobbies
- Detention Facilities
- Laboratories
- Meat & Produce Departments
- Bakeries

**Product Advantages:**

- More cost effective and longer lasting than vinyl.
- Seamless and sanitary floor and covering
- A variety of aggregate colors may be blended to match any décor.
- Chemical resistant
- Highly durable

**Packaging:**

- Floropoxy 4700 Primer –  
4 Gallon Over Pack  
20 Gal Pail Set  
220 Gal Drum Set
- Floropoxy 4805 Clear –  
4 Gallon Over Pack  
20 Gal Pail Set  
220 Gal Drum Set
- Estes Colored Quartz Aggregate –  
50 lb Bags

**Storage:** All containers should be stored at 40° F to 95° F and be kept tightly sealed and out of direct sunlight.

**Coverage:**

- Primer: Floropoxy 4700: 160 SF/Gallon
  - 1<sup>st</sup> Basecoat: Floropoxy 4805 Clear: 160 SF/Gallon
  - Colored Quartz: ½ lb/SF/broadcast
  - 2<sup>nd</sup> Basecoat: Floropoxy 4805 Clear: 100 SF/gallon
  - Colored Quartz: ½ lb/SF/broadcast
  - 1<sup>st</sup> Grout: Floropoxy 4805 Clear: 100 SF/gallon
  - 2<sup>nd</sup> Grout: Floropoxy 4805 Clear: 160 SF/gallon
- Optional Finish Coat(s):** Florothane CR or MC

Cured Physical Properties		
Property	Test Method	Results
Compressive Strength	ASTM C579	10,000 PSI
Flexural Strength	ASTM C580	4,300 PSI
Flexural Modulus of Elasticity	ASTM C580	2.0 x 10E6 PSI
Indentation	MIL D3134F	No Indentation
Impact Resistance	ASTM D4226	>160 in/lb
Shore Hardness	ASTM D2240	85 - 90
Percent Elongation	ASTM D2370	6%
Water Absorption	ASTM C413	0.1%
Bond Strength	ACI Comm. #503, pg. 1139-41	>400 PSI
Abrasion Resistance, CS 17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	0.06 gm max loss
Heat Resistance Limitation (continuous exposure)		140°F / 60°C
Coefficient of Friction	ASTM D2047	0.6
Flammability	ASTM D635	Self-extinguishing
Thermal Coefficient of Linear Expansion	ASTM C531	1.8 x 10-5 in/in/°C

**Surface Preparation:** New concrete must have a 28 day cure, and preferably a broom swept finish, prior to coating. In the case of older concrete flooring, remove all surface oils, paint, dust and debris. Prior to coating, make sure the surface is clean, passes the MVT test and the water drop test and that all surface defects have been repaired. Refer to the Florock "Preparation of Concrete" datasheet for more information on preparation and MVT before proceeding.

**Floroquartz Application:** Double broadcast method applied on smooth, bare concrete

*Note: Floropoxy should not be applied when floor temperature is above 90°F or below 55°F, or when within 5°F of the dew point.*

**1. Primer Application:** Once surface preparation is complete, apply Floropoxy 4700 primer to the concrete floor. In a clean, dry container, blend 3 parts by volume of Component A and 1 part by volume of Component B. Mix thoroughly for 3-5 minutes, using a low speed mechanical mixer. Transfer the mixture from the batch container to a transport container. Remix and pour entire mix from the transport container onto floor immediately. Retaining mixture in the bucket will shorten the pot life. Using a 1/8" V notched squeegee, spread at an approximate rate of 160 SF/gallon. Backroll with a 3/8" nap roller immediately after spreading. Allow primer to cure before applying the basecoat.

*Note: The cure time will vary with conditions. Allow a minimum of 6 hours and a maximum of 24 hours.*

## **2. 1<sup>st</sup> Broadcast Application:**

Mix dry medium broadcast grade colored quartz to create the desired color combination. Mix Floropoxy 4805 in a clean, dry container. Blend 3 parts by volume of Component A and 1 part by volume of Component B. Mix thoroughly for 3 to 5 minutes using a low speed mechanical mixer. Transfer the mixture from the batch container to a transport container. Remix and pour entire contents onto floor immediately. Using a 1/8" notched squeegee, spread at an approximate rate of 160 SF/gallon. Backroll with a 3/8" nap roller immediately after spreading. Gently broadcast quartz into first wet basecoat at the rate of 1/2 lb/SF. Spiked shoes or equivalent should be worn by mechanic to walk on wet basecoat when rolling and broadcasting. Continue broadcasting quartz until all liquid is filled and there are no apparent wet spots. Allow sufficient cure time so that material is cured hard enough to walk on without leaving an impression in the coating. Sweep or blow off excess quartz. Sand or screen any high areas until smooth. Vacuum clean.

## **3. 2<sup>nd</sup> Broadcast Application:**

Repeat procedure outlined in step 2, except this time slightly more resin will be consumed as the surface is now rough. Spread Floropoxy 4805 at 100 SF/gallon.

**4. 1st Grout Coat Application:** Grout with Floropoxy 4805. Blend 3 parts by volume of Component A and 1 part by volume of Component B. Mix only the amount that can be applied during working time. Apply using a flat cement finishing trowel or a flat squeegee and backroll at an approximate rate of 100 SF/gallon, depending upon desired texture.

**5. 2nd Grout Coat Application:** Repeat procedure outlined in step 4, except this time less resin will be consumed as the surface is now smoother. Spread Floropoxy 4805 at 160 SF/gallon.

**6. Optional Finish Coat(s):** After the final grout coat has cured, apply one or more clear finish coats of Florock Florothane CR or MC to enhance the properties. Allow 24-36 hours cure time before opening floor to light foot traffic.

## **3/16" Slurry/Broadcast**

**Floroquartz Application** – Applied on irregular, bare concrete surface flooring.

*Note: Floropoxy should not be applied when floor temperature is above 90°F or below 55°F, or when within 5°F of the dew point.*

**1. Primer Application:** Once surface preparation is complete, apply Floropoxy 4700 primer to the concrete floor. In a clean, dry container, blend Floropoxy Primer. Mix thoroughly for 3-5 minutes, using a low speed mechanical mixer. Transfer the mixture from the batch container to a transport container. Remix and pour entire mix from the transport container onto floor immediately. Retaining mixture in the bucket will shorten the pot life. Using a 1/8" V notched squeegee or 3/8" nap roller, apply basecoat at a rate of 160 SF/gallon. Backroll with a 3/8" nap roller immediately after spreading. Allow primer to cure before applying the basecoat.

*Note: The cure time will vary with conditions. Allow a minimum of 4 hours and a maximum of 24 hours before next step.*

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**2. Slurry/Broadcast Application:** Mix dry, medium broadcast grade, colored quartz to create the desired color combination. In a clean dry container, blend system 4805. Blend 3 parts by volume of Component A and 1 part by volume of Component B. Mix only the amount that can be used during working time. Combine an equal volume of resin and quartz to create a slurry mixture (one gallon each of resin and quartz will produce 1.6 gallons of slurry). Mix well using a low speed mechanical mixer for 3 to 5 minutes. Immediately pour slurry mixture onto floor using a flat cement trowel. Apply slurry at an approximate rate of 12 SF/gallon, and spike roll. Once the slurry is placed, broadcast quartz to excess figuring ½ lb per square foot.

**3. 1st Grout Coat Application:** Grout with Floropoxy 4805. Blend 3 parts by volume of Component A and 1 part by volume of Component B. Mix only the amount that can be applied during working time. Apply using a flat cement trowel or flat squeegee and backroll at an approximate rate of 100 SF/gallon, depending upon desired texture.

**4. 2nd Grout Coat Application:** Repeat procedures outlined in step 4, but only apply Floropoxy 4805 at 160 SF/gallon.

**5. Optional Finish Coat(s):** After the final grout coat has cured, apply one or more clear finish coats of Florock Florothane CR or MC to enhance the properties. Allow 24-36 hours cure time before opening floor to light foot traffic.

### Instructions for Use over Existing Coatings:

Examine the existing coating to ensure that it is well bonded to the concrete. Any loose coating must be completely removed. Edges should be sanded to a feathered edge. Clean the entire floor thoroughly with detergent cleaner. The surface must be free of all dirt, oils, or other contaminants. After the floor has completely dried, sand the existing coating until a powdery residue is evident and all gloss is removed. Sweep or vacuum clean, and wipe with Florobase

Thinner to ensure good adhesion of the new system.

*Note: When coating over existing coatings, a test patch is recommended to evaluate compatibility.*

**Maintenance:** Sweep away dust and debris with a broom. Clean on a regular basis with a surfactant type mild detergent. Florock floors never need to be waxed.

**Please read material safety data before using product.**

### Disclaimer:

All statements and recommendations are based on experience we believe to be reliable. The use or the application of these products being beyond the control of the Seller or Manufacturer, neither Seller nor Manufacturer make any warranty, expressed or implied, as to results or hazard from its use. The suitability, risk and liability whatsoever of a product for an intended use shall be solely up to the User.