

## Floroquartz HB 3/16" Industrial Decorative Epoxy Colored Quartz Flooring With Integral Covebase

**Product Description:** Floroquartz HB is a 100% solvent free 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:

- Washrooms
- Meat Departments
- Produce Departments
- Bakeries
- Locker rooms and lobbies
- Detention facilities
- Laboratories

**Product Advantages:**

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

**Products:**

- **Primer:** Floropoxy SL 4700
- **Troweled Matrix:** FloroBuild 4750 w/Troweling Aggregate (1-gal. & 65# covers approx. 32 sf)
- **Broadcast Matrix:** Floropoxy SL 4805 w/color quartz (BC grade)
- **Sealer Coats:** Floropoxy 4805 (2 coats) w/optional skid resistance
- **Optional Finish Coat:** Florothane CR or MC

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

Cured Physical Properties		
Property	Test Method	Results
Compressive Strength	ASTM C579	10,000 PSI
Tensile Strength	ASTM C2370	2,100 PSI
Fluxural Strength	ASTM C580	4,300 PSI
Flexural Modules Elasticity	ASTM C580	2.0 x 10E6 PSI
Indentation	MIL-D-3134F	No Indentation
Impact Resistance	ASTM D4226	>160 in/lb
Shore Hardness, D	ASTM D2240	85 - 90
Water Absorption	ASTM C413	0.1%
Bond Strength	ASTM D4541	>400 PSI
Abrasion Resistance, CS 17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	0.04 gm max loss
Water Resistance, Fed. Test Std. #141 Method 6011	ASTM D1308	No Effect
Heat Resistance Limitation (Continuous exposure)		140° F/60° C
Coefficient of Friction	ASTM D2047	0.6
Flammability	ASTM D635	Self-extinguishing

**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.

*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 SL 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. Troweled Matrix Application:**

Mix Florobuild 4750 as follows: 3 quarts of Component A with 1 quart of Component B. In a clean, dry portable cement mixer with forced action motor, blend mixed gallon of 4750 resin with 65 lbs of FloroBuild Aggregate. Mix well and immediately transfer mix onto floor. Screed in place figuring 32 square feet for each mix. Finish with cement trowel. Spray trowel with Florock S-21 Trowel Lube as necessary.

*Note: Power troweling will require a drier mix.*

**3. Broadcast Matrix Application:**

Blend Floropoxy SL 4805: 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 - 120 SF/gallon. Before 4805 starts to gel, broadcast (Colorquartz BC grade) until no shiny spots are seen, @ approximate 1/2#/sf. Sweep off any excess.

**4. Sealer Coats:**

Blend Floropoxy SL 4805: 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 1<sup>st</sup> coat using a flat cement finishing trowel or a flat squeegee and backroll at an approximate rate of 120 - 160 SF/gallon and the 2<sup>nd</sup> coat @ 100 sf per gallon.

Chemical Resistance, 24 Hour	
Reagent	Spot Test Results
Sulfuric Acid 20%	1
Sodium Hydroxide 20%	1
Nitric Acid 10%	1
Hydrochloric Acid 10%	1
Phosphoric Acid 10%	1
Citric Acid 10%	1
Lactic Acid 10%	1
Acetic Acid 5%	1
Sugar Solution 10%	1
Isopropyl Alcohol	5
Acetone	5
Ammonia	1
Brake Fluid	4
Sodium Chloride 20%	1
MEK	5
JP 4 Jet Fuel	2
1-1-1 Trichloroethane	1
Urine	1
Xylene	1
Methylene Chloride	1
Mineral Spirits	1
MIBK	5
Skydrol	5
Beer/Wine	1
Bleach	1
Rubbing Alcohol	1
Tincture of Iodine	1,S
Household Cleaner (Non-Dye Containing)	1

**Rating Scale: Spot Test, ASTM D1308  
Pencil Hardness Test, ASTM D3363**

- 1 - Excellent. No change in pencil hardness
- 2 - Very Good. 1 Unit change in pencil hardness
- 3 - Good. 2 Units change in pencil hardness
- 4 - Fair. 3 Units change in pencil hardness
- 5 - Poor. 4 or more units change in pencil hardness
- S - Stains

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**5. Optional Finish Coat(s):** After the final sealer 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

### **Integral Covebase:**

When specified, install covebase before the flooring.

- Prime area to receive covebase with FloroGel.
- Mix 4805 w/Color Quartz and Trowel into wet primer.
- Then install the flooring and seal everything at one time.

### **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.