

FloroQuartz HB 5mm Industrial, Decorative Epoxy Coloured Quartz Flooring With Integral Covebase Option

Product Description:

Floroquartz HB is a two-component, 100% solids, 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:

- Bakeries
- Food preparation areas
- Light Manufacturing Facilities
- Laboratories
- Meat & Produce Departments
- Bakeries

Product Advantages:

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

Products:

- **Primer:** Floropoxy System 4700
- **Mortar Base:** FloroBuild system 4750
- **Buildcoats & broadcasts:** Floropoxy system 4805 with coloured quartz broadcasts.
- **Sealers:** Floropoxy system system 4805 clear sealer coats
- **Optional Finish Coat:** Florothane CR 250 or MC Ultra 100

Storage:

All containers should be stored at 5° C to 35° C and be kept tightly sealed and out of direct sunlight.

Cured Physical Properties

Property	Test Method	Results
Compressive Strength	ASTM C579	86 N/mm ²
Tensile Strength	ASTM C307	18 N/mm ²
Fluxural Strength	ASTM D790	31 N/mm ²
Flexural Modules Elasticity	ASTM C580	2.0 x 10E6 PSI
Indentation	MIL-D-3134F	No Indentation
Impact Resistance	ASTM D4226	>1800 mm/kg
Shore Hardness, D	ASTM D2240	85 - 90
Water Absorption	ASTM C413	0.1%
Bond Strength (concrete failure)	ASTM D4541	>3 N/mm ²
Abrasion Resistance, CS 17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	40 mg max loss
Water Resistance, Fed. Test Std. #141 Method 6011	ASTM D1308	No Effect
Heat Resistance Limitation	60° C (Continuous exposure)	60° C (Intermittent exposure)
Coefficient of Friction	ASTM D2047	>0.6
Flammability	ASTM D635	Self-extinguishing
Flame Spread/NFPA 101	ASTM E-84	Class A

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 Moisture Vapour Transmission (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 the floor temperature is above 32° C or below 13° C, or when within 3° C 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 3mm V notched squeegee, spread at an approximate rate of 3.8m²/ltr. Backroll with a 10mm 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 system 4750 epoxy mortar base as follows: 3 litres of Component A with 1 litre of Component B. In a clean, dry portable forced action mixer. Blend mixed 4750 resin with 2 x 15.12 kgs of FloroBuild Aggregate. Mix well and immediately transfer mix onto floor. Install mortar at 6m²/mix which will result in a thickness of 3mm. 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:

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 3mm notched squeegee, spread at an approximate rate of 3.8m²/ltr. Backroll with a 10mm nap roller immediately after spreading. Gently broadcast quartz into first wet basecoat at the rate of 2kg/m². Spiked shoes or equivalent should be worn by operative 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. Scrape or stone any high areas until smooth. Vacuum clean.

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	5
Xylene	1
Methylene Chloride	5
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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4. 2nd 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 2.4m²/ltr.

5. 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 2.4m²/ltr, depending upon desired texture.

6. 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 3.8m²/ltr

Optional Finish Coat(s): After the final grout coat has cured, apply one or more clear finish coats of Florock Florothane CR250 or MC Ultra 100 to enhance chemical and abrasion resistance 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 with Coloured 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 of a product for an intended use shall be solely up to the User

