

## FloroQuartz TL 5-6mm Epoxy Coloured Quartz Flooring With Integral Coving option

### Product Description:

FloroQuartz TL is a 100% solids, solvent free, decorative and durable quartz 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:

- Laboratories
- Locker rooms, corridors & lobbies
- Education establishments
- Healthcare
- Public buildings
- Correctional facilities

### Product Advantages:

- More cost effective and longer lasting than vinyl products.
- A seamless and sanitary floor covering
- An excellent alternative to terrazzo tiles
- Chemical resistant & highly durable
- A choice of 12 standard colour blends & custom options

### Products:

- **Primer:** Floropoxy system 4700
- **Troweled Matrix:** Floropoxy system 4850 & coloured trowel grade quartz aggregate
- **Sealer Coats:** Floropoxy system 4805 (2 coats) with optional slip resistance
- **Optional Finish Coat:** Florothane CR250, MC Ultra 100 or Florowear 7100

### Storage:

All containers should be stored between 16° C to 30° C in a dry area and be kept tightly sealed and out of direct sunlight.

### Cured Physical Properties

Property	Test Method	Results
Compressive Strength (Resins & Aggregates)	ASTM C579	72 N/mm <sup>2</sup>
Compressive Strength (Resins Only)	ASTM C695	89 N/mm <sup>2</sup>
Tensile Strength (Resins & Aggregates)	ASTM C370	14.5 N/mm <sup>2</sup>
Tensile Strength (Resins Only)	ASTM C638	34.5 N/mm <sup>2</sup>
Flexural Strength	ASTM C580	29.6 N/mm <sup>2</sup>
Flexural Modules of Elasticity	ASTM C580	13,800 N/mm <sup>2</sup>
Indentation	MIL-D-3134F	No Indentation
Impact Resistance	ASTM D4226	>1,800 mm kg
Shore Hardness, D	ASTM D2240	85 - 90
Water Absorption	ASTM C413	0.1%
Bond Strength	ASTM D4541	>3 N/mm <sup>2</sup>
Abrasion Resistance, CS 17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	40 mg max loss
Heat Resistance Limitation (Continuous exposure)		60° C
Coefficient of Friction	ASTM D2047	0.6
Flammability	ASTM D635	Self-extinguishing
Thermal Coefficient of Linear Expansion	ASTM C531	1.5 x 10 <sup>-2</sup> mm/mm/°C
Microbial Resistance	ASTM G21	Passes

### 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 system 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 3.8m<sup>2</sup>/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:**

Blend Floropoxy system 4850 as follows: 2.8 ltrs of Component A with 0.95 ltr of Component B. (mix ratio 3:1 by volume) in a clean, dry portable forced action mixer. Blend mixed resin with 23 kgs of coloured quartz aggregate. Mix well and immediately transfer mix onto floor. Screed in place to a spread rate of 2.25m<sup>2</sup> for each mix. Finish with cement trowel. Spray trowel with Florock S-21 Trowel Lube as necessary.

**3. Sealer Coats:**

Blend Floropoxy system 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 2.8 – 3.8m<sup>2</sup>/ltr and the 2<sup>nd</sup> coat @ 2.4m<sup>2</sup>/ltr

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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### 4. 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 coving at the same time as the flooring.

- Prime area to receive coving with Floropoxy system 4700 primer
- Blend system 4850 with coloured quartz (as step 2 above) and trowel into wet primer. Install coving and floor at the same time
- Seal coving and floor at the same 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 solvent free wipes 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.