

## FloroCryl Quartz MMA Flooring System

**Product Description:** FloroCryl Quartz is a fast curing, high strength methyl methacrylate (MMA) based acrylic flooring system for use on all types of medium load industrial floors, especially those that have a high demand for sterility and ease of cleaning. Florocryl Quartz is flexible with excellent resistance to wear, impact and chemical contact. The quick cure time of Florocryl Quartz means that downtime is minimized while installing the floor.

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

- Laboratories
- Traffic Aisles
- Walk in Coolers/Freezers
- Animal Research
- Manufacturing Areas
- Food Processing Areas
- Bottling Areas
- Grocery Stores

### Product Advantages:

- Slip-resistant finish
- Rapid cure time
- Excellent bond strength
- Excellent chemical resistance
- Easy to clean and sterilize
- Weatherproof and UV resistant
- Curing down to -22° F
- Low maintenance cost

### Packaging:

- GRB1,M, N3, N4 and L2 are packaged in 5 gallon pails
- Floroquartz aggregate, BC or TR grade are packaged in 50 pound bags
- Filler blend is packaged in 33 pound bags
- RC Catalyst is packaged in 10 pound and 55 pound boxes

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

Physical Properties		
Property	Test Method	Results
Tensile Strength	ASTM D638	2,175psi
Compressive Strength	ASTM D695	8,000psi
Water Absorption	ASTM D570	0.04%
Flexural Strength	ASTM D790	3,700 psi
Flexural Modulus	ASTM D790	470,000 psi
Percent Reactive	EPA 24	100%

*Note: If material is stored between 75° F and 95° F place the material into a cooler environment at least 24 hours prior to usage. Using warm Methyl Methacrylate will shorten the working time.*

### Double Broadcast Coverage, 1/8" System

Primer :

- Apply Florocryl GRB1 Primer at 100 to 160 ft<sup>2</sup>/gallon

First Basecoat:

- Apply Florocryl N3 Basecoat at 160 ft<sup>2</sup>/gallon
- Broadcast Florocryl Quartz at a rate of 0.5 pounds per square foot

Second Basecoat:

- Reapply Florocryl N3 Basecoat at 100 ft<sup>2</sup>/gallon
- Rebroadcast Florocryl Quartz at a rate of 0.5 pounds per square foot

Topcoats:

- Apply first Florocryl L2 topcoat at 100 ft<sup>2</sup>/gallon
- Reapply second Florocryl L2 topcoat at 100 to 160 ft<sup>2</sup>/gallon

### Single Broadcast Coverage, 1/8" to 3/16" System

Primer :

- Apply Florocryl GRB1 Primer at 100 to 160 ft<sup>2</sup>/gallon

First Basecoat:

- Apply Florocryl N4 with filler at 80 ft<sup>2</sup> per batch for a 60 mil basecoat (total system thickness of 1/8"). Apply Florocryl N4 with

filler at 40 ft<sup>2</sup> per batch for a 125 mil basecoat (total system thickness of 3/16")

- Broadcast Florocryl Quartz at a rate of 0.5 pounds per square foot

Topcoats:

- Apply first Florocryl L2 topcoat at 100 ft<sup>2</sup>/gallon
- Reapply second Florocryl L2 topcoat at 100-160 ft<sup>2</sup>/gallon

**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: Surface defects, such as spalls and cracks, shall be repaired before proceeding. Bond tests shall be conducted to determine the adequacy of substrate preparation. Contact your Florock representative for more information.*

**Coving:** If coving is desired, this should be done prior to the application Florocryl Quartz. Refer to the Florocryl Cove technical data Sheet for further information.

**Membrane Installation:** If a membrane is desired, this should be completed prior to the application of Florocryl SL. Refer to the Florocryl Membrane technical data Sheet for further information.

#### **Typical Application:**

Double Broadcast 1/8" System:

**Primer Application:** Premix FloroCryl GRB1 and then transfer 2.5 gallons into the batch pail. Make a batch of Florocryl GRB1 primer by mixing 2.5 gallons with the appropriate amount of catalyst (see catalyst technical data sheet). Once mixing is complete, immediately transfer the product onto substrate. Depending on the substrate texture, spread using a flat or notched squeegee at a rate of 100 to 160 ft<sup>2</sup> per gallon. Back roll using a 3/8" nap phenolic core roller.

*Note: After allowing sufficient time (approx. 45 minutes), walk the floor to inspect for a low sheen finish throughout. If glossy areas are found, do not proceed with the installation of the floor and contact a Florock Representative immediately.*

#### **Basecoat Application:**

Premix N3 and pour into 2.5 gallons into the batch pail. Add the appropriate amount of catalyst and remix (see catalyst technical data sheet). Once mixing is complete, immediately transfer the product onto primed substrate. Spread using a flat squeegee at a rate of 160 ft<sup>2</sup> per batch and then back roll using a 3/8" nap phenolic core roller.

**Broadcasting:** Once the basecoat has been applied, broadcast Floroquartz. Broadcast the Quartz to excess to ensure a uniform distribution throughout the entire space. The Floroquartz should fall vertically and gently down into the basecoat so that the resin is not disturbed. There must not be wet patches as these will appear as smooth areas after sweeping. After allowing the N3 Basecoat to cure (45 to 60 minutes), sweep and vacuum any excess Floroquartz from the floor.

#### **Second Basecoat Application:**

Premix N3 and pour into 2.5 gallons into the batch pail. Add the appropriate amount of catalyst and remix (see catalyst technical data sheet). Once mixing is complete, immediately transfer the product onto the substrate. Spread using a flat squeegee at a rate of 100 ft<sup>2</sup> per gallon and then back roll using a 3/8" nap phenolic core roller.

**Broadcasting:** Once the basecoat has been applied, broadcast Floroquartz. Broadcast the Quartz to excess to ensure a uniform distribution throughout the entire space. The Floroquartz should fall vertically and gently down into the basecoat so that the resin is not disturbed. There must not be wet patches as these will appear as smooth areas after sweeping. After allowing the N3 Basecoat to cure (45 to 60 minutes), sweep and vacuum any excess Floroquartz from the floor.

**Topcoat Application:** Premix FloroCryl L2 and then transfer 2.5 gallons into the batch pail. Add the appropriate amount of catalyst and remix (see catalyst technical data sheet). Once mixing is complete, immediately transfer the product onto a previously basecoated substrate. Spread using a flat or notched squeegee at a rate of 100 ft<sup>2</sup> per gallon and then back roll using a 3/8" nap phenolic core roller. After allowing for

## FloroCryl Quartz MMA Flooring System

sufficient curing time (60 minutes), reapply Florocryl L2 Topcoat in the same fashion at 160 ft<sup>2</sup> per gallon.

### Typical Application:

Single Broadcast 1/8" to 3/16" System:

**Primer Application:** Premix FloroCryl GRB1 and then transfer 2.5 gallons into the batch pail. Make a batch of Florocryl GRB1 primer by mixing 2.5 gallons with the appropriate amount of catalyst (see catalyst technical data sheet). Once mixing is complete, immediately transfer the product onto substrate. Depending on the substrate texture, spread using a flat or notched squeegee at a rate of 100 to 160 ft<sup>2</sup> per gallon and then back roll using a 3/8" nap phenolic core roller.

*Note: After allowing sufficient time (approx. 45 minutes), walk the floor to inspect for a low sheen finish throughout. If glossy areas are found, do not proceed with the installation of the floor and contact a Florock Representative immediately.*

### Basecoat Application:

Premix N4 and pour into 1.25 gallons into the batch pail. Make a batch of Florocryl N4 by mixing 1.25 gallons with the appropriate amount of catalyst (see catalyst technical data sheet) and add 33 pounds of MMA filler. If colorant is needed add 100% colorant at this point. Once mixing is complete, immediately transfer the product onto primed substrate. Spread using a notched trowel or squeegee at a rate of 40 to 80 ft<sup>2</sup> per batch and then backroll using a spiked roller.

**Broadcasting: Broadcasting:** Once the basecoat has been applied, allow the slurry to set 5 to 10 minutes then broadcast the Floroquartz. Broadcast the Quartz to excess to ensure a uniform distribution throughout the entire space. The Floroquartz should fall vertically and gently down into the basecoat so that the resin is not disturbed. There must not be "wet" patches as these will appear as smooth areas after sweeping. After allowing the N4 Basecoat/Filler to cure (45 to 60

minutes), sweep and vacuum any excess Floroquartz from the floor.

**Topcoat Application:** Premix FloroCryl L2 and then transfer 2.5 gallons into the batch pail. Add the appropriate amount of catalyst and remix (see catalyst technical data sheet). Once mixing is complete, immediately transfer the product onto a previously basecoated substrate. Spread using a flat or notched squeegee at a rate of 100 ft<sup>2</sup> per gallon and then back roll using a 3/8" nap phenolic core roller. After allowing for sufficient curing time (60 minutes), reapply Florocryl L2 Topcoat in the same fashion at 160 ft<sup>2</sup> per gallon.

### Caution:

FloroCryl is a flammable liquid having a flash point of 50° F. Smoking, open flames and sparks should not be permitted during the handling of the product. Use only as directed. Keep out of reach of children. Please read the material safety data before using this product.

### Disclaimer:

All statements and recommendations above are based on experience we believe to be reliable. The use or 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