

## FloroCryl Chip MMA Flooring System

**Product Description:** FloroCryl Chip is a fast curing, high strength, methyl methacrylate (MMA) based acrylic flooring system. FloroCryl Chip is a seamless floor designed to provide a terrazzo-like appearance. FloroCryl Chip system consists of a primer, basecoat, vinyl color flakes and two topcoats. FloroCryl Chip can be applied from 1/16" to 1/8" thickness. FloroCryl Chip can be installed with a smooth or slip-resistant finish.

### Typical Uses, Applications:

- Clean Rooms
- Locker Rooms
- Rest Rooms
- Laboratories
- Concourses
- High Traffic Aisles
- Lobbies

### Product Advantages:

- Available slip-resistant finish
- Seamless and hygienic finish
- Excellent chemical resistance
- Easy to clean and sterilize
- Weatherproof and UV resistant
- Excellent bond strength
- Low maintenance cost
- Rapid cure time

### Packaging:

- GRB1, M, N3, N4 and L2 are packaged in 5 gallon pails
- Filler blend is packaged in 33 pound bags
- Florochips are packaged in 10 pound and 55 pound boxes
- 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.

*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.*

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%

### Economy Coverage 1/16" Full Flake System:

Primer :

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

Basecoat:

- Apply FloroCryl N3 Basecoat at 100 to 160 ft<sup>2</sup>/gallon
- Broadcast FloroCryl Chips at a rate of 0.15 pounds per square foot

Topcoats:

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

### Heavy Coverage 1/8" Full Flake System:

Primer:

- Apply FloroCryl MMA Primer at 100 to 160 ft<sup>2</sup>/gallon

Basecoat:

- Premix 1.25 gallons of FloroCryl N4 Basecoat with 33 pounds of MMA Filler. Apply at 80 ft<sup>2</sup> per batch (60 mils) to achieve a finish floor with 1/8" thickness.
- Broadcast FloroCryl Chips at a rate of 0.15 pounds per square foot

**Random Flake:** For a random flake, only broadcast 1 pound of Florochips for every 200 square feet. Contact your Florock representative for more information

#### Topcoats:

- Apply FloroCryl MMA L2 Topcoat at 100ft<sup>2</sup> per gallon
- Reapply FloroCryl MMA L2 Topcoat at 160 ft<sup>2</sup> per 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 SL. 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:

Economy 1/16" Full Flake 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 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 N3 and pour into 2.5 gallons into the batch pail, add the appropriate amount of catalyst (see catalyst technical data sheet) and remix. 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 100 to 160 ft<sup>2</sup> per batch then back roll using a high quality 3/8" nap phenolic core roller.

**Broadcasting:** Broadcast Florochips once the basecoat has been applied, making sure to broadcast the chips to excess to ensure a uniform distribution throughout the entire space. The Florochips 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 Florochips from the floor.

**Topcoat Application:** Premix FloroCryl L2 and then transfer 2.5 gallons into the batch pail, add the appropriate amount of catalyst (see catalyst technical data sheet) and remix. If colorant is needed add 100% colorant at this point. Once mixing is complete, immediately transfer the product onto a previously coated substrate. Spread using a flat or notched squeegee at a rate of 100 ft<sup>2</sup> per gallon, then back roll using a 3/8" nap phenolic core roller. Prior to the application of the second topcoat, buff the floor with a screen or sandpaper to ensure a uniform, smooth finish to the surface. Reapply FloroCryl L2 Topcoat in the same fashion at 100 to 160 ft<sup>2</sup> per gallon.

*Note: For slip resistant properties, broadcast 4-6 pounds of #60 Aluminum Oxide Granules over 100 square feet in to the final topcoat of FloroCryl L2 and backroll.*

#### Typical Application:

Heavy 1/8" Full Flake 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

## FloroCryl Chip MMA Flooring System

substrate texture, spread using a flat or notched squeegee at a rate of 100 to 160 ft<sup>2</sup> per gallon 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 80 ft<sup>2</sup> per batch (60 mils) then backroll using a spiked roller.

**Broadcasting:** Once the basecoat has been applied, broadcast Florochips. Broadcast the chips to excess to ensure a uniform distribution throughout the entire space. The Florochips 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 with filler Basecoat to cure (45 to 60 minutes), sweep and vacuum any excess Florochips from the floor.

**Topcoat Application:** Premix FloroCryl L2 and then transfer 2.5 gallons into the batch pail. Add the appropriate amount of catalyst (see catalyst technical data sheet) and remix. If colorant is needed add 100% colorant at this point. Once mixing is complete, immediately transfer the product onto a previously coated 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 then back roll using a short nap 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.

*Note: For slip resistant properties, broadcast 4 to 6 pounds of #60 Aluminum Oxide Granules over 199 square feet into the final topcoat of FloroCryl L2 and back roll.*

### 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 of a product for an intended use shall be solely up to the User