

## FloroCryl Shop MMA Flooring System

**Product Description:** FloroCryl Shop is a fast curing methyl methacrylate flooring system designed to provide durability and versatility. FloroCryl Shop is composed of a primer, basecoat, and two topcoats. This floor can be made to provide smooth or slip-resistant finishes.

### Typical Uses, Applications:

- Loading Docks
- Industrial Kitchens
- Freezers
- Bottling Areas
- Laboratories
- High Traffic Areas
- Refrigerators/Coolers
- Grocery Stores

### Product Advantages:

- Rapid Cure Time
- Chemical Resistant
- Easy to Clean and Sterilize
- Weatherproof and UV Resistant
- Available Slip-Resistant Finish
- Excellent Bond Strength
- Low Maintenance Cost

### Packaging:

FloroCryl MMA Primer

- 5 gallon pail or 50 gallon drum

FloroCryl Basecoat

- 5 gallon pail or 50 gallon drum

FloroCryl L2 Topcoat

- 5 gallon or 50 gallon drum

FloroCryl Silica Sand

- 50 pound bag

FloroCryl Filler Blend, Neutral or Silver-Grey

- 33 pound bag

**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 Characteristics	
Property	Value
Percent Reactive	100%
Tensile Strength, ASTM D638	2,175 psi
Compressive Strength, ASTM D695	8,000 psi
Water Absorption, ASTM D570	0.04%
Flexural Strength, ASTM D790	3,700 psi
Flexural Modulus, ASTM D790	470,000 psi

### Coverage – Economy 52 ml. System:

*Primer:*

- Apply FloroCryl MMA Primer at 160 ft<sup>2</sup>/gal.

*Basecoat:*

- Apply FloroCryl MMA N3 Basecoat 160 ft<sup>2</sup>/gal.
- Broadcast Silica Sand at a rate of 0.5 lb/ft<sup>2</sup>.

*Topcoats:*

- Apply FloroCryl MMA Topcoat at 100 ft<sup>2</sup>/gal.
- Reapply FloroCryl MMA Topcoat at 160 ft<sup>2</sup>/gal.

### Coverage – Heavy Duty 1/16" System:

*Primer:*

- Apply FloroCryl MMA Primer at 160 ft<sup>2</sup>/gal.

*Basecoat:*

- Premix 1.25 gallons of FloroCryl N4 Binder with 33 pounds of MMA Filler and apply over 36 ft<sup>2</sup> to achieve a finish floor with 1/16" thickness.
- Broadcast Silica Sand at a rate of 0.5 lb/ft<sup>2</sup>.

*Topcoats:*

- Apply FloroCryl MMA Topcoat at 100 ft<sup>2</sup>/gal.
- Reapply FloroCryl MMA Topcoat at 160 ft<sup>2</sup>/gal.

**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 before installing FloroCryl Shop. 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 the FloroCryl Shop. Refer to the FloroCryl Membrane technical data sheet for further information.

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### Typical Application:

Economy 52 ml. System

**Primer Application:** Premix the primer and pour 2.5 gallons into the batch pail. Make a batch of FloroCryl 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 the substrate. Spread using a flat squeegee at 160 ft<sup>2</sup> per gallon. Back roll using a 3/16" nap roller.

*Note: After allowing sufficient cure 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 the pail of FloroCryl N3 Basecoat and pour 2.5 gallons into the batch pail. Make a batch of FloroCryl N3 Basecoat by mixing 2.5 gallons with the appropriate amount of catalyst (see catalyst technical data sheet). Mix thoroughly, and immediately transfer the product onto the substrate. Spread using a flat squeegee at 160 ft<sup>2</sup> per gallon. Back roll using a 3/16" nap roller. Broadcast 40-60 mesh Silica Sand at a rate of 0.5 lb/ft<sup>2</sup>. Broadcast to excess; until there are no wet spots. Once cured, sweep and vacuum excess sand.

*Note: For a pigmented first Basecoat, add 2 pounds of MMA pigment to each batch.*

**Topcoat Applications:** Premix the topcoat and pour 2.5 gallons into the batch pail. Make a batch of FloroCryl L2 Topcoat 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 the substrate. Spread using

a flat squeegee at 100 ft<sup>2</sup> per gallon. Back roll using a 3/16" nap roller. After allowing for sufficient cure time (60 minutes), reapply FloroCryl L2 Topcoat in the same fashion at 160 ft<sup>2</sup> per gallon.

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### Typical Application:

Heavy Duty 1/16" System

**Primer Application:** Premix the primer and pour 2.5 gallons into the batch pail. Make a batch of FloroCryl 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 the substrate. Spread using a flat squeegee at 160 ft<sup>2</sup> per gallon. Back roll using a 3/16" nap roller.

*Note: After allowing sufficient cure 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 1.25 gallons of FloroCryl MMA N4 Basecoat with 33 pounds of Neutral or Silver-Grey MMA Filler. Immediately transfer the slurry onto the substrate. Spread using a notched squeegee or gauge applicator at a rate of 36 ft<sup>2</sup>/gal. Backroll with pin roller and allow to set for 5-10 minutes. Broadcast 40-60 mesh Silica Sand at a rate of 0.5 lb/ft<sup>2</sup>. Broadcast to excess; until there are no wet spots. Once cured, sweep and vacuum excess sand.

*Note: For a pigmented Basecoat, add 2 pounds of MMA pigment to each batch of N4 Neutral MMA Filler.*

**Topcoat Applications:** Premix the topcoat and pour 2.5 gallons into the batch pail. Make a batch of FloroCryl L2 Topcoat 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 the substrate. Spread using a flat squeegee at 100 ft<sup>2</sup> per gallon. Back roll using a 3/16" nap roller. After allowing for sufficient cure time (60 minutes), reapply FloroCryl L2 Topcoat in the same fashion at 160 ft<sup>2</sup> per gallon.

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### **Caution:**

FloroCryl Shop 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.