

## FloroCryl Deck

Elasticised, MMA Decking System

### Product Description:

FloroCryl Deck is a low temperature curing, methyl methacrylate based decking system designed to provide waterproofing, shock absorption and energy displacement properties to internal & external surfaces. FloroCryl Deck comprises a primer, flexible membrane, optional basecoat/aggregate layers and topcoats.

**This product data sheet should be read in conjunction with the `FloroCryl Deck System Configurations` drawings.**

### Typical Uses, Applications:

- Car park decks
- Ramps & turning circles
- Walkways & Balconies
- Pool surrounds & terraces
- Loading Docks
- Showers, wet rooms & wash bays
- Bottling areas
- Freezers/coolers

### Product Advantages:

- Rapid Cure Time
- Excellent Bond Strength
- Decorative quartz option
- Chemical Resistant
- Flexible System
- Waterproof
- UV resistant

### System Packaging:

- 18.8 litre pail
- FloroCryl quartz filler (X-DK1/A system option)
- FloroCryl decorative quartz broadcast aggregate (X-QZ1/B system option)
- Aluminium oxide/silicon carbide broadcast aggregates (X-DK1 & XDK1/A system options)

Aluminium oxide /Silicon carbide supplied in 25 kg bags

Decorative quartz supplied in 14.5 kg bags

**Storage:** All containers should be stored below 35<sup>o</sup> and should be kept tightly sealed and out of direct sunlight.

*Note: If material is stored between 23<sup>o</sup> C and 35<sup>o</sup> C place the material into a cooler environment at least 24 hours prior to usage. Using warm Methyl Methacrylate will shorten the working time.*

### System Configuration X-DK/1

#### 1.75mm to 2.95mm application thickness

- Primer GRB1 @ 3.8m<sup>2</sup>/litre
- Membrane (M) @ 0.95m<sup>2</sup>/litre
- 1<sup>st</sup> Topcoat (L2) @ 3.8m<sup>2</sup>/litre
- Optional broadcast layer 1.2kg/m<sup>2</sup>
- 2<sup>nd</sup> Topcoat (L2) @ 3.8m<sup>2</sup>/litre

### System Configuration X-DK1/A

#### 2.6mm to 4.3mm application thickness

- Primer GRB1 @ 3.8m<sup>2</sup>/litre
- Membrane (M) @ 0.95m<sup>2</sup>/litre
- Basecoat (N3) @ 3.8m<sup>2</sup>/litre
- Quartz broadcast filler @ 2.4kg/m<sup>2</sup>
- 1<sup>st</sup> Topcoat (L2) @ 3.8m<sup>2</sup>/litre
- Optional broadcast layer 1.2kg/m<sup>2</sup>
- 2<sup>nd</sup> Topcoat (L2) @ 3.8m<sup>2</sup>/litre

### System Configuration X-QZ1/B

#### 3.2mm application thickness

- Primer GRB1 @ 3.8m<sup>2</sup>/litre
- Membrane (M) @ 0.95m<sup>2</sup>/litre
- 1<sup>st</sup> basecoat (N3) @ 3.8m<sup>2</sup>/litre
- 1<sup>st</sup> Quartz broadcast @ 1.2kg/m<sup>2</sup>
- 2<sup>nd</sup> basecoat (N3) @ 3.8m<sup>2</sup>/litre
- 2<sup>nd</sup> Quartz broadcast @ 1.2kg/m<sup>2</sup>
- Clear topcoat (L2) @ 3.8m<sup>2</sup>/litre

**Surface Preparation:**

New concrete must have a 28 day cure, and preferably a broom swept finish, prior to coating. In 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.*

**System Configuration X-DK/1**  
**Installation instructions:**
**GRB 1 Primer:**

Premix GRB1 and pour 9.4 litres (half of the container) into the batch pail. Add the appropriate amount of catalyst (see catalyst technical data sheet) and remix. If colourant is needed, add 100% colourant at this point. Once mixing is complete, immediately transfer the product onto a properly prepared substrate. Spread using a notched trowel or squeegee at a rate of 3.8m<sup>2</sup>/litre and then back roll using a high quality 10mm nap roller.

**M Membrane:**

FloroCryl M membrane is cured with FloroCryl MMA Catalyst. In some cold temperature applications, an accelerator is used in addition to the catalyst. Refer to the FloroCryl MMA Catalyst

Physical Characteristics	
Property	Value
Percent Reactive	100%
Tensile Strength, ASTM D638	15,000 kN/mm <sup>2</sup>
Water Absorption, ASTM D570	0.04%
Compressive Strength, ASTM D695	55 N/mm <sup>2</sup>
Flexural Strength, ASTM D790 / (Heavy Duty Application)	25,510 kN/mm <sup>2</sup>
Flexural Modulus, ASTM D790 / (Heavy Duty Application)	3,241 MN/mm <sup>2</sup>

technical data sheet for more details. Mix FloroCryl M membrane and pour 9.4 litres (half of the container) into the batch pail. Catalyse and then dump out pail contents onto the primed substrate and apply at 0.95m<sup>2</sup>/ltr using a notched squeegee back roll using a pin roller.

**L2 Topcoats:**

FloroCryl L2 topcoat is cured with FloroCryl MMA Catalyst. In some cold temperature applications, an accelerator is used in addition to the catalyst. Refer to the FloroCryl MMA catalyst technical data sheet for further information. Mix FloroCryl L2 and then transfer 9.4 litres (half of the container) into the batch pail. Add catalyst and remix. Once mixing is complete, immediately transfer the product onto the previously applied M membrane. Apply the first coat using a flat or notched squeegee at a rate of 3.8m<sup>2</sup>/litre, back roll using a short nap roller. Should optional texture be required immediately broadcast the desired grade of aluminium oxide or silicon carbide into the surface of the L2 coating to refusal, ensuring no wet patches remain. Following curing, sweep off loose aggregate and then apply a second coat of L2 exactly as the first.

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### System Configuration X-DK1/A

#### Installation instructions:

##### GRB1 Primer:

Premix GRB1 and pour 9.4 litres (half of the container) into the batch pail. Add the appropriate amount of catalyst (see catalyst technical data sheet) and remix. If colourant is needed, add 100% colourant at this point. Once mixing is complete, immediately transfer the product onto a properly prepared substrate. Spread using a notched trowel or squeegee at a rate of 3.8m<sup>2</sup>/litre and then back roll using a high quality 10mm nap roller.

##### M Membrane:

FloroCryl M membrane is cured with FloroCryl MMA Catalyst. In some cold temperature applications, an accelerator is used in addition to the catalyst. Refer to the FloroCryl MMA Catalyst technical data sheet for more details. Mix FloroCryl M membrane and pour 9.4 litres (half of the container) into the batch pail. Catalyse and then dump out pail contents onto the primed substrate and apply at 0.95m<sup>2</sup>/ltr using a notched squeegee back roll using a pin roller.

##### N3 Basecoat & quartz filler

Premix FloroCryl N3 basecoat and pour 9.4 litres (half of the container) into the batch pail. Add the appropriate amount of catalyst (see catalyst technical data sheet) and remix. Once mixing is complete, immediately transfer the product onto the cured M membrane. Spread using a notched trowel or squeegee at a rate of 3.8m<sup>2</sup>/ltr and then back roll using a high quality 10mm nap roller. Immediately broadcast the quartz filler into the surface of the N3 basecoat to refusal, ensuring no wet patches remain.

##### L2 Topcoats:

FloroCryl L2 topcoat is cured with FloroCryl MMA Catalyst. In some cold temperature applications, an accelerator is used in addition to the catalyst. Refer to the FloroCryl MMA catalyst technical data sheet for further information. Mix FloroCryl L2 and then transfer 9.4 litres (half of the container) into the batch pail. Add catalyst and remix. Once mixing is complete, immediately transfer the product onto the previously applied M membrane. Apply the first coat using a flat or notched squeegee at a rate of 3.8m<sup>2</sup>/litre, back roll using a short nap roller. Should optional texture be required immediately broadcast the desired grade of aluminium oxide or silicon carbide into the surface of the L2 coating to refusal, ensuring no wet patches remain. Following curing, sweep off loose aggregate and then apply a second coat of L2 exactly as the first.

### System Configuration X-QZ1/B

#### Installation instructions:

##### GRB1 Primer:

Premix GRB1 and pour 9.4 litres (half of the container) into the batch pail. Add the appropriate amount of catalyst (see catalyst technical data sheet) and remix. If colourant is needed, add 100% colourant at this point. Once mixing is complete, immediately transfer the product onto a properly prepared substrate. Spread using a notched trowel or squeegee at a rate of 3.8m<sup>2</sup>/litre and then back roll using a high quality 10mm nap roller.

**M Membrane:**

FloroCryl M membrane is cured with FloroCryl MMA Catalyst. In some cold temperature applications, an accelerator is used in addition to the catalyst. Refer to the FloroCryl MMA Catalyst technical data sheet for more details. Mix FloroCryl M membrane and pour 9.4 litres (half of the container) into the batch pail. Catalyse and then dump out pail contents onto the primed substrate and apply at 0.95m<sup>2</sup>/ltr using a notched squeegee back roll using a pin roller.

**1<sup>st</sup> N3 Basecoat & Decorative Quartz Broadcast**

Premix FloroCryl N3 basecoat and pour 9.4 litres (half of the container) into the batch pail. Add the appropriate amount of catalyst (see catalyst technical data sheet) and remix. Once mixing is complete, immediately transfer the product onto the cured M membrane. Spread using a notched trowel or squeegee at a rate of 3.8m<sup>2</sup>/ltr and then back roll using a high quality 10mm nap roller. Immediately broadcast the decorative quartz into the surface of the N3 basecoat to refusal, ensuring no wet patches remain.

**2<sup>nd</sup> N3 Basecoat & Decorative Quartz Broadcast**

Premix FloroCryl N3 basecoat and pour 9.4 litres (half of the container) into the batch pail. Add the appropriate amount of catalyst (see catalyst technical data sheet) and remix. Once mixing is complete, immediately transfer the product onto the cured 1<sup>st</sup> N3 basecoat. Spread using a notched trowel or squeegee at a rate of 3.8m<sup>2</sup>/ltr and then back roll using a high quality 10mm nap roller. Immediately broadcast the decorative quartz into the surface of the N3 basecoat to refusal, ensuring no wet patches remain.

**L2 Clear Topcoat:**

FloroCryl L2 topcoat is cured with FloroCryl MMA Catalyst. In some cold temperature applications, an accelerator is used in addition to the catalyst. Refer to the FloroCryl MMA catalyst technical data sheet for further information. Mix FloroCryl L2 and then transfer 9.4 litres (half of the container) into the batch pail. Add catalyst and remix. Once mixing is complete, immediately transfer the product onto the cured N3 membrane. Apply the L2 using a flat or notched squeegee at a rate of 3.8m<sup>2</sup>/litre, back roll using a short nap roller.

**Caution:**

FloroCryl M Membrane 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.