

## **CRYL-A-FLOOR**

### **DESCRIPTION**

CRYL-A-FLOOR is a 100% reactive, fast curing, high strength, methyl methacrylate (MMA) based, acrylic flooring system. It is a nominal 1/8 (flintshot) inch (3 mm) overlay system, composed of primer, double broadcast and topcoats. This system cannot be thinned with solvents. Surface finish is slip resistant.

### **BENEFITS**

- VOC compliant, <100 g/L
- Fast cure, full strength in less than one hour
- NSF, CFIA Registered
- Indoor and outdoor applications
- UV resistant
- Resistant to chemical attack
- Seamless, no cold joints, always bonds to itself
- Meets USDA/FDA guidelines
- Installs over a wide temperature range: 0° - 90°F
- Available with Micro-Pel® anti-bacterial and fungal additive

### **TYPICAL USES**

- Laboratories
- Traffic Aisles
- Heavy Industry
- Walk In Coolers
- Animal Holding
- Loading Docks
- Manufacturing Areas
- Food Processing Areas
- Bottling Areas
- Freezers
- Grocery Stores
- Commercial Kitchens

### **COLORS**

CRYL-A-FLOOR is available in assorted standard colors. Please refer to the Standard Color Chart on our website. Custom colors are available upon request.

### **PACKAGING & STORAGE CONDITIONS**

CRYL-A-FLOOR resins are available in 5-gallon (19 liter) pails and 50-gallon (190 liter) drums. CRYL-A-CURE is available in 1-gallon (3.8 liter) boxes. Flintshot aggregate is available in 50 lb (22.7 kg) and 100 lb (45.5 kg) bags.

Store in a cool and dry place below 85 F (30 C), out of direct sunlight. Do not store near open flame or food. The shelf life is 6 months from ship date in the original unopened containers.

### **SURFACE PREPARATION**

The substrate must be dry and free of oil, grease, dirt, bituminous and other contaminants. Unsound concrete and laitance should be removed by appropriate mechanical means.

### **APPLICATION METHOD / SPREAD RATE**

The system is comprised of a prime coat of CRYL-A-PRIME P-101 followed by two broadcast coats of plain silica sand into pigmented CRYL-A-GLAZE G-201. The system is finished with two top coats of pigmented CRYL-A-TOP T-301.

### **GUIDE SPECIFICATIONS**

This product is part of the DUR-A-FLEX family of polymer systems. Please contact DUR-A-FLEX for complete three part guide specs.

### **DRAWINGS AND DETAILS**

Standard CAD drawings and details are available for coves, drains, breaches, transitions, etc. Please contact DUR-A-FLEX for actual drawings.

### **JOINT GUIDELINES**

Refer to the Joint Guidelines for complete details on our website.

# CRYL-A-FLOOR

## TECHNICAL INFORMATION

Physical Property	Test Method	Result	
Percent Reactive		100%	
Hardness (Shore D)	ASTM D-2240	88 – 92	
Compressive Strength	ASTM C-109	8,300 psi	
Tensile Strength	ASTM D-638 ASTM D-307	2,000 psi 1,350 psi	
Tensile Elongation	ASTM D-638	7.50%	
Flexural Strength	ASTM D-790	3,700 psi	
	ASTM C-580	2,700 psi	
Flexural Module of Elasticity	ASTM D-790	$4.7 \times 10^5$	
Linear Expansion	ASTM D-696	$3.5 \times 10^{-5}$	
Bond Strength to Concrete		400 psi substrate fails	
Indentation	MIL- D-3134	.025 max	
Impact Resistance	MIL- D-3134	Pass	
Water Absorption	ASTM D-570	0.04%	
Heat Resistance Limitation	Intermittent	160°F	
	Continuous	140°F	
Flammability	ASTM D-635	Self Extinguishing	
Abrasion Resistance (CS17 Wheel 1000 GM Load 1000 Cycles)	ASTM D-4060	21 mg.loss	
Coefficient of Friction	ASTM D-2047		
		- Standard Finish	>0.6
		- Smooth Finish	0.5
VOC Content		< 100 g/l	

### CHEMICAL RESISTANCE

This product is resistant to many common chemicals. Please refer to the master Chemical Resistance Chart on our website for actual resistance to specific chemicals/reagents.

### CLEANING

This product is part of a low maintenance flooring solution; however, certain textures and service environments require specific procedures. Please refer to the master Cleaning Guide on our website.

### APPLICATION CHARACTERISTICS

Pot Life @ 68 F (20 C)	10-20 minutes
Cure Rate @ 68 F (20 C)	30-60 minutes
Recoat Time	60 minutes

### CURE

CRYL-A-FLOOR components will typically cure in 45-60 minutes. The floor is fully functional one hour after completed application.

### TECHNICAL INFORMATION

CRYL-A-FLOOR is part of a family of special repair and wearing materials supplied by DUR-A-FLEX. If you require further information on this or any of our other products, please contact our Technical Department.

**CAUTION:** Adequate cross ventilation should be provided. Read, understand and follow Safety Data Sheets and Application Instructions of this flooring system prior to use. Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed. **If substrate and/or material temperature is above 90 F (32 C), Do Not apply material.**

### MOISTURE CONCERNS

Normal limits for moisture vapor transmission for MMA floor systems are 5 lbs./1,000 sq. ft./24 hours using the calcium chloride test per ASTM F-1869 or 85% relative humidity using in-situ Relative Humidity Testing per ASTM F-2170. Please refer to the Floor Evaluation Guidelines at [www.dur-a-flex.com](http://www.dur-a-flex.com) for complete details.

*Before using any DUR-A-FLEX, Inc. product, be sure the Safety Data Sheet is read and understood.*