

Another Quality  
Dur-A-Flex® Product

# CRYL-A-FLEX™

FLOORING SYSTEMS



**C**ritical flooring applications call for innovative solutions that fit your business needs and meet your most demanding technical requirements. The Cryl-A-Flex™ Methyl Methacrylate (MMA) systems from Dur-A-Flex® using the same tough components found in bulletproof glass deliver all the characteristics you want most in a commercial/industrial flooring system:

- Fast curing (cures to full strength in one hour for minimal business interruption)
- Wide temperature range (can be applied in temperatures as low as -20 F)
- Recoatable, always chemically bonds to itself
- UV stability (won't yellow or chalk)
- VOC compliant, 100% solids
- High tensile and compressive strength
- Chemical and thermal shock resistance
- Meets USDA/FDA requirements
- NSF Registered
- CFIA Registered
- Variety of anti-slip texture for safety

Available as a clear or colored thin film sealer, a self-leveling overlay and a solid color or multi-color resurfacer, Cryl-A-Flex™ is perfect for:

- freezers
- pharmaceutical plants
- kitchens
- laboratories
- chemical facilities
- food processing plants
- machine shops
- dairies
- public facilities
- indoor and outdoor uses



**FAST CURING**

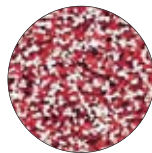
**TEMPERATURE INSENSITIVE**

**CHEMICAL RESISTANT**

**UV STABLE**

Among the qualities that distinguish Cryl-A-Flex™ floors are strength, ductility and an attractive, low-gloss, satin finish.

**LOW GLARE**



**Q28 QUARTZ  
AGGREGATE**

**Colors:**

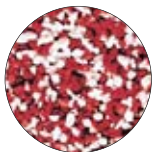
Clear or pigmented with a standard selection of colors. Custom colors are available at your request.

**Special formulations:**

Indoor/outdoor formula, Bio-Pruf® Antimicrobial treatment.

**Available finishes:**

Smooth, and a variety of anti-slip textures.



**Q11 QUARTZ  
AGGREGATE**

More information on MMA can be found on [www.MMAfloors.com](http://www.MMAfloors.com)

PERFORMANCE FLOORING SOLUTIONS

**DUR-A-FLEX® Inc.**

EPOXIES • MMA • URETHANES  
COLORED QUARTZ AGGREGATES

# Let Cryl-A-Flex™ put your flooring project on the fast track

The Cryl-A-Flex™ family of acrylic flooring products meet or exceed FDA, USDA and OSHA guidelines and are the perfect complement to the Dur-A-Flex® family of epoxy and urethane flooring systems, and colored quartz sand.

From prime coat to topcoat, Cryl-A-Flex™ systems offer a complete solution for a wide range of flooring applications. Our experience has led to the development of products that satisfy the needs from heavy industry, or light manufacturing to food processing, or decorative commercial environments. The ultrafast Cryl-A-Flex™ cure sets new standards for performance and operational flexibility.

With the Bio-Pruf® Antimicrobial additive or a chemical and thermal resistant topcoat, Cryl-A-Flex™ products will meet your most demanding flooring requirements.

Offering excellent resistance to acids and alkali, Cryl-A-Flex™ systems are UV stable and cure to an appealing, low-glare satin finish.



**SCRATCH RESISTANT**  
**EASY MAINTENANCE**

*Decorative and durable, MMA quartz flooring systems are ideal for pharmaceutical applications.*

**STANDARD SLIP RESISTANT**



**RELIABLE**  
**VOC COMPLIANT**

*Strong yet flexible, the Cryl-A-Flex™ Methyl Methacrylate (MMA) systems are VOC compliant.*

**HIGH TENSILE STRENGTH**

Principal Cryl-A-Flex™ components include:

#### Primer Coat

Cryl-A-Prime™ P-101 penetrating low viscosity primer

#### Matrix Coatings

Cryl-A-Glaze™ G-201 medium viscosity binder

Cryl-A-Glaze™ G-202 medium viscosity binder for extreme temperature fluctuations

#### Aggregates

Dur-A-Quartz™ multi-colored quartz aggregate Q28 (broadcast applied) and Q11 (coarse grain); natural quartz aggregate; SL filler blend; decorative chip blends

#### Topcoats

Cryl-A-Top™ T-301/T-302/T-303 topcoats are available to handle various degrees of chemical and thermal shock resistance

# Cryl-A-Flex™ Flooring Systems

## Cryl-A-Shield™

This two-component high build system for sealing concrete, cement screed or quarry tile, consists of a Cryl-A-Prime™ low viscosity prime coat, which penetrates and strengthens concrete, with a Cryl-A-Top™ topcoat that is available with or without anti-slip textures.

## Cryl-A-Gard SL™

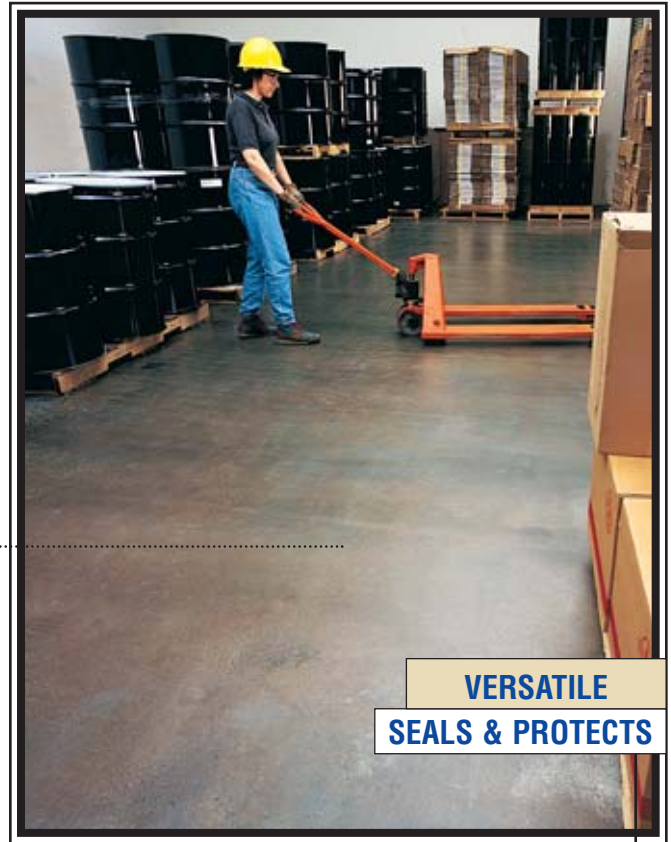
When a thicker overlay is required, Cryl-A-Gard SL™ is a versatile coating solution for applications from 1/8" to 1/4".

Filler enhanced pigmented Cryl-A-Glaze™ resin and a Cryl-A-Top™ topcoat complete an efficient, seamless surface.

Cryl-A-Gard SL™ may incorporate decorative chips or quartz to create an attractive multi-color flooring pattern.

## Cryl-A-Chip™

For a textured look, multi-colored chips, broadcasted into acrylic resin. System components: Cryl-A-Prime™, Cryl-A-Glaze™, decorative chips and Cryl-A-Top™ topcoat.



**VERSATILE**  
**SEALS & PROTECTS**

*Temperature insensitivity makes Cryl-A-Flex™ components ideal for refrigerated environments and indoor/outdoor applications.*

**FLEXIBLE**  
**PREVENTS DUSTING**



**DECORATIVE**  
**SANITARY**

## Cryl-A-Floor™

This workhorse resurfacer combines pigmented Methyl Methacrylate resin and natural quartz aggregate for applications 1/8" to 1/4" thick. Available in a variety of solid colors, Cryl-A-Floor™ can be further enhanced with the Bio-Pruf® Antimicrobial treatment, which actively attacks bacteria and fungi and prevents microorganisms from synthesizing chemicals which could damage flooring.

## Cryl-A-Quartz™

The premium decorative flooring solution, Cryl-A-Quartz™ uses the same select graded multi-color quartz aggregate that has established Dur-A-Flex® as a premier provider of pigmented quartz to the commercial/industrial/institutional flooring industry. Offered in fine or coarse grades, Cryl-A-Quartz™ delivers a rich selection of colors and a choice of slip resistant and smooth textures.

## Cryl-A-Tex™

This acrylic (MMA) polymer concrete matrix can be used for pothole and spall repair or used for sloping for drains and structural rehabilitation. It consists of a Cryl-A-Tex™ liquid and Cryl-A-Tex™ powder. This system cures to full strength in one hour.

*Super-fast-curing Cryl-A-Flex™ components let you install or resurface flooring systems with minimal business interruption.*

**THERMAL SHOCK RESISTANT**

# Cryl-A-Flex™ Resurfacers

## Physical Properties

	Test Method	CRYL-A-SHIELD Nominal 30 Mils	CRYL-A-GARD SL Nominal 1/8"	CRYL-A-FLOOR, CRYL-A-QUARTZ Nominal 1/8"	CRYL-A-CHIP Nominal 1/16"
Hardness (Shore D)	ASTM D-2240	88-92	88-92	88-92	88-92
Compressive Strength	ASTM C-109	6,000 psi	8,300 psi	8,300 psi	6,000 psi
Tensile Strength	ASTM D-638	3,555 psi	2,000 psi	2,000 psi	3,555 psi
	ASTM C-307	2,400 psi	1,350 psi	1,350 psi	1,350 psi
Tensile Elongation	ASTM D-638	34%	7.50%	7.50%	7.50%
Flexural Strength	ASTM D-790	3,500 psi	3,700 psi	3,700 psi	3,700 psi
	ASTM C-580	2,500 psi	2,700 psi	2,700 psi	2,700 psi
Flexural Modulus of Elasticity	ASTM D-790	4.5 x 10 <sup>5</sup>	4.7 x 10 <sup>5</sup>	4.7 x 10 <sup>5</sup>	4.7 x 10 <sup>5</sup>
Linear Expansion	ASTM D-696	3.5 x 10 <sup>-5</sup>	3.5 x 10 <sup>-5</sup>	3.5 x 10 <sup>-5</sup>	3.5 x 10 <sup>-5</sup>
Bond Strength to Concrete	ASTM D-4541	400 psi substrate fails	400 psi substrate fails	400 psi substrate fails	400 psi substrate fails
Indentation	ML D-3134	.032 MAX	.025 MAX	.025 MAX	.030 MAX
Impact Resistance	ML D-3134	Pass	Pass	Pass	Pass
Water Absorption	ASTM D-570	0.04%	0.04%	0.04%	0.04%
Heat Resistance Limitation		140°F	140°F	140°F	140°F
Flammability	ASTM D-635	Self Extinguishing	Self Extinguishing	Self Extinguishing	Self Extinguishing
Abrasion Resistance	ASTM D-4060				
	CS17 Wheel 1000 GM Load 1000 Cycles	29 mg loss	21 mg loss	21 mg loss	29 mg loss
Coefficient of Friction	ASTM D-2047				
	Standard Slip Resistant	NA	NA	0.7	NA
	Smooth	0.5	0.5	0.5	0.5
VOC Content		<100 g/l	<100 g/l	<100 g/l	<100 g/l

## Chemical Resistance Guide

Legend: R=Recommended, S=Splash and Spill, N=Not Recommended

Reagent*	%Conc.	Cryl-A-Top	Reagent*	%Conc.	Cryl-A-Top	Reagent*	%Conc.	Cryl-A-Top
Acetic Acid	10%	R	Gasoline, High Octane		R	Petroleum		R
Acetic Acid	30%	R	<b>Hydrochloric Acid</b>	conc.	<b>R</b>	<b>Phosphoric Acid</b>	40%	<b>R</b>
Acetic Acid	conc.	N	Lactic Acid	30%	R	Potassium Chloride		R
Ammonia	10%	R	Lemon Juice		R	Potassium Hydroxide	50%	R
Ammonia	30%	S	Methyl Ethyl Ketone		N	Sodium Hypochlorite		R
Caustic Soda		R	Mineral Oil		R	Sodium Sulphate		R
<b>Chromic Acid</b>	40%	<b>R</b>	N-Hexane		R	<b>Sulfuric Acid</b>	50%	<b>R</b>
Citric Acid	30%	R	N-Propyl Acetate		S	<b>Sulfuric Acid</b>	conc.	<b>N</b>
Cyclohexane		R	<b>Nitric Acid</b>	10%	<b>R</b>	Toluene		S
Diesel Fuel		R	<b>Nitric Acid</b>	30%	<b>S</b>	Turpentine		R
Ethanol	30%	R	<b>Nitric Acid</b>	conc.	<b>N</b>	Urine		R
Gasoline, Normal Octane		R	Olive Oil		R	Wine		R

\*Reagents listed in bold may stain. "Conc." indicates highest typical concentration.

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