

CRYL-A-QUARTZ SL

DESCRIPTION

CRYL-A-QUARTZ SL is a 100% reactive, fast curing, high strength, methyl methacrylate (MMA) based, acrylic flooring system. It is a nominal 3/16 (Q-28) - 1/4 (Q-11) inch (4.75-6 mm) self-leveling overlay system with a colored quartz aggregate broadcast and topcoats. This system cannot be thinned with solvents.

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
- Use over a wide temperature range, even below freezing
- Available with Bio-Pruf® antibacterial and fungal additive

TYPICAL USES

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

COLORS

CRYL-A-QUARTZ uses DUR-A-FLEX decorative aggregate. It is available in standard colors and in two sizes. Color options are standard colors and custom color blends. Please refer to Quartz Color Selector Chart.

PACKAGING & STORAGE CONDITIONS

CRYL-A-QUARTZ SL 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. SL FILLER BLEND is available in 40 lb (18.1 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 a body coat consisting of 7 quarts (6.7 liter) of CRYL-A-GLAZE G-201 resin, a 40 lb (18.1 kg) bag of SL Filler Blend, 4 oz. of CRYL-A-COLOR pigment and CRYL-A-CURE. This mix will yield 40 Sq Ft at 1/8 inch (3.5 mm) thick. Trowel or gage rake to the appropriate thickness, then use a spiked roller to release any trapped air. Broadcast in DUR-A-FLEX decorative aggregate, Q-11 or Q-28, at an approximate rate of 0.75 lbs per Sq Ft (3.75 kg per m²). The cured system is top coated with two clear coats of 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.

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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	4.7×10^5
Linear Expansion	ASTM D-696	3.5×10^{-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
- Smooth Finish		0.5
VOC Content		< 100 g/l

JOINT GUIDELINES

Refer to the Joint Guidelines for complete details on our website

MOISTURE CONCERNS

Normal limits for moisture vapor transmission for MMA floor systems are 5 lbs./1,000 sq. ft./24 hour 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 for complete details.

CHEMICAL RESISTANCE

This product is resistant to many common chemicals. Refer to the Chemical Resistance Chart on our website or consult with our technical staff for non-listed materials.

CLEANING

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

CURE

CRYL-A-QUARTZ SL system will cure typically in 45-60 minutes. At this time the floor is fully functional.

TECHNICAL INFORMATION

CRYL-A-QUARTZ SL 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.

APPLICATION CHARACTERISTICS

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

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.**

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