

CRYL-A-QUARTZ

DESCRIPTION

CRYL-A-QUARTZ is a 100% reactive, fast curing, high strength, methyl methacrylate (MMA) based, acrylic flooring system. It is a nominal 1/8 (Q-28) - 3/16 (Q-11) inch (3-4.75 mm) overlay system, composed of primer, double broadcast of DUR-A-FLEX decorative aggregate and topcoats. This system cannot be thinned with solvents. Surface finish can be smooth or 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
- 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
- Animal Research
- Loading Docks
- Pool Decks
- Manufacturing Areas
- Food Processing Areas
- Bottling Areas
- Freezers
- Grocery Stores
- Commercial Kitchens

IMPORTANT: POOL DECK APPLICATIONS

When used for pool deck applications, only the **standard slip-resistant texture** should be used. A 4' x 4' test patch for customer approval prior to installation is highly recommended. Every pool deck installation **must** be registered with a Dur-A-Flex, Inc. Sales representative at the completion of installation and before the pool deck is open for use. These forms can be found in the Technical Catalog in the Master Documents section or in the Contractor Center on our website.

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.

STORAGE CONDITIONS & PACKAGING

CRYL-A-QUARTZ resins are available in 5-gallon (19 liter) pails and 50-gallon (190 liter) drums. CRYL-A-CURE is available in 1-gallon boxes. DUR-A-FLEX decorative aggregate is available in two sizes, Q-28 and Q-11, and packaged in 50 lb (22.7 kg) bags.

Store in a cool and dry place below 85 F (30 C) and 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

The system is comprised of a prime coat of CRYL-A-PRIME P-101 followed by two broadcast coats of decorative quartz aggregate into CRYL-A-GLAZE G-201. The system is finished with two top 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.

JOINT GUIDELINES

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

CRYL-A-QUARTZ

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 ASTM C-580	3,700 psi 2,700 psi
Flexural Module of Elasticity	ASTM D-790	4.7 x 10 ⁵
Linear Expansion	ASTM D-696	3.5 x 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 Continuous	160°F 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 Texture		>0.6
- Smooth Texture		0.5
VOC Content		< 100 g/l

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

TECHNICAL INFORMATION

CRYL-A-QUARTZ 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.