

## CRYL-A-QUARTZ SL

### GENERAL

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

### COLORS

CRYL-A-QUARTZ uses DUR-A-FLEX decorative aggregates. 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.

### TYPICAL USES

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

### 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. Refer to the DUR-A-FLEX Surface Preparation Guide on our website for more information.

### MOISTURE CONCERNS

Please refer to the Floor Evaluation Flow Chart in the Contractor's Center of our website for a step-by-step process to determine the condition of the concrete.

### BOND TEST

Prior to application of the primer, bond tests shall be conducted to determine adequacy of substrate preparation. The bond of the primer to the substrate should be greater than the tensile strength of the substrate. A successful test shows substrate material and sheared aggregate adhering fully to the sample. If only laitance or a small amount of the substrate is attached, further preparation is required. Refer to the Bond Test Guide on our website for more information.

### VENTILATION

Prior to any application, proper "negative pressure" ventilation must be established. Please refer to the CRYL-A-FLEX Ventilation Guidelines on our website for details.

### APPLICATION METHOD / SPREAD RATE

All MMA resins require the addition of CRYL-A-CURE (BPO) to cure. To determine the correct amount of BPO necessary, refer to the CRYL-A-FLEX Mixing Chart. BPO usage is a function of the material and substrate temperature. **Therefore, the temperature of the floor must be measured prior to any mixing or application of material.**

Due to the fast cure of the material, only make enough material to be applied in 5 minutes. A typical batch size of primer or topcoat is usually 1 gallon (4 liters). Warmer conditions may dictate a smaller batch size. The primer is applied with a brush or roller at 80 - 100 Sq Ft per gallon (2-3 m<sup>2</sup> per liter) to achieve an even, puddle free surface. Substrates that are very porous may require an additional coat. Rough surfaces and holes must be patched with the appropriate CRYL-A-FLEX system before the body coat is applied. Based on the temperature, add the proper amount of BPO to the CRYL-A-PRIME P-101. Mix for 30 - 60 seconds or until the BPO is completely dissolved. Pour an even ribbon of material out onto the floor and roll to the proper thickness. The primer will cure tack free in 45 - 60 minutes.

If CRYL-A-BOND is used with primer, the next coat must be applied within 16 hours. Failure to do this could result in inadequate inter-coat adhesion.

The self-leveling body coat is composed of 7 quarts (6.7 liters) of CRYL-A-GLAZE G-201 resin, one 40 lb (18.1 kg) bag of MMA SL FILLER BLEND, and CRYL-A-CURE (BPO). This mix will yield 40 sq ft (3.5 m<sup>2</sup>) at 1/8 inch (3 mm) thick. The mix procedure is to first add CRYL-A-GLAZE to a clean 5-gallon (19 liter) plastic bucket.

The self-leveling body coat is composed of 7 quarts (6.7 liters) of CRYL-A-GLAZE G-201 resin, one 40 lb (18.1 kg) bag of MMA SL FILLER BLEND, CRYL-A-CURE (BPO) and optional CRYL-A-Color pigment (8 ounces per batch). This mix will yield 40 sq ft (3.5 m<sup>2</sup>) at 1/8 inch (3 mm) thick. The mix procedure is to first add CRYL-A-GLAZE to a clean 5 gallon

(19 liter) plastic bucket. Next, add the proper amount of BPO per the CRYL-A-FLEX Mixing Guide and optional Cryl-A-Color pigment and start mixing with a 5 inch (100mm) Jiffler mixer. Continue to mix and slowly add the SL FILLER BLEND. A homogenous mix should be achieved in one minute. Make sure there are no lumps of sand. The mix is poured into the wet edge of the previous placed material. Trowel or gage rake (pin style) to the proper thickness, use a spiked roller to release any trapped air. Use CRYL-A-CLEAN in a tray to keep gage rake, spiked roller and trowels clean. Be sure to clean your tools every 10-15 minutes.

Note: If the gauge rake is set to 2 quarters thickness (for 1/8 inch) the yield is very consistent. The rake must be checked periodically as the pins do wear.

Q-28 or Q-11 DUR-A-FLEX Colored Quartz is broadcast into the wet material at approximately 0.75 lbs per sq ft (3.75 kg per m<sup>2</sup>). Keep broadcast 6 feet (1.8 m) back from the wet working edge. Let material cure and sweep off excess aggregate. When broadcasting aggregate, make sure to throw it high and let it "rain down" into the surface. Do not throw at an angle as this can result in ripples.

The cured system is topcoated with two clear coats of CRYL-A-TOP T-301. The first topcoat is applied by roller at 80 – 90 sq ft per gallon (Q-28) or 50 – 60 sq ft per gallon (Q-11). The second topcoat is applied by roller at 90 – 100 sq ft per gallon (Q-28) or 70 - 90 sq ft per gallon (Q-11). If a smoother finish is required, the surface may be sanded in between coats.

## **CURE**

CRYL-A-QUARTZ SL components will typically cure in 45-60 minutes. The floor is fully functional one hour after completed application. **IMPORTANT, DO NOT APPLY THE TOPCOAT TOO THIN.** It may not cure properly, it will pick up dirt and wear prematurely.

## **TECHNICAL INFORMATION**

CRYL-A-QUARTZ SL is part of a family of 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.

## **JOINT GUIDELINES**

Refer to the Joint Guidelines for complete details on our website

## **PACKAGING**

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) cans, 5-gallon (19 liter) pails and 55 lb (25 kg) boxes. Colored aggregate is available in 50 lb (22.7 kg) bags. SL Filler Blend is packaged in 40 lb (18.1 kg) bags.

## **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.

## **STORAGE CONDITIONS**

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.

## **CAUTION**

CRYL-A-QUARTZ SL resins are flammable liquids in their uncured state. Smoking, open flames or sparks should not be permitted during the handling of the product. Workers should wear protective clothing consisting of splash-proof goggles, impermeable gloves and, where exposure limits are exceeded, an organic vapor respirator should be used. Air powered or explosion proof mixing equipment is required. Adequate cross ventilation should be provided and explosion proof fans may be required. All foodstuffs must be removed during application of the system. **Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed. KEEP OUT OF REACH OF CHILDREN. If substrate and/or material temperature is above 90 F (32 C), Do Not apply material. Detailed application instructions should be obtained, read and understood prior to commencement of application.**

### **IMPORTANT!**

*Before using DUR-A-FLEX products, read and understand its accompanying Safety Data Sheet.*

STANDARD TERMS AND CONDITIONS OF SALE, INCLUDING STANDARD WARRANTY APPLY - VISIT **DUR-A-FLEX.COM** FOR THE LATEST VERSION

**CAUTION!** As with all chemical products, individuals may have different reactions to exposure to specific products. This is dependent upon many factors, including the individual's personal characteristics, the size of the installation, the ventilation available, the intensity of the exposure or the length of the exposure. Individuals may experience discomfort during the installation process of one product, but not another.

In some cases this is experienced as a skin irritation and in others it is experienced as an inhalant irritation. Typically, it disappears once the exposure is eliminated. In some cases people can become "sensitized" to a product and experience the discomfort every time there is exposure without Personal Protective Equipment ("PPE").

To protect yourself from various exposures or discomfort during the mixing and application of our products, we recommend covering exposed skin including, using gloves, long sleeves, safety glasses and a respirator such as the 3M 8577 P95 Universal Disposable Carbon Respirator or a cartridge respirator.

Use only as directed. **KEEP OUT OF REACH OF CHILDREN.**

Do not reseal moisture-contaminated hardener. This will result in carbon dioxide generation or possible violent rupture of container.