

## CRYL-A-CHIP

### GENERAL

CRYL-A-CHIP is 100% reactive, fast curing, high strength methyl methacrylate (MMA) based acrylic flooring system. It is designed to provide a terrazzo like appearance with the benefits of a seamless floor. It is a 1/32 to 1/16 inch (0.8 to 1.6 mm) thick system composed of primer, double broadcast of MICRO or MACRO decorative chips and topcoats. Surface finish can be smooth or slip resistant. This system cannot be thinned with solvents.

### COLORS

CRYL-A-CHIP is available in MICRO or MACRO decorative chips. The chips are available in standard blends. MACRO are available in solid colors or custom multi-color pre-blends.

### TYPICAL USES

- Laboratories
- Traffic Aisles
- Rest Rooms
- Lobbies
- Concourse
- Pharmaceuticals
- Manufacturing Areas
- Locker Rooms
- Retail
- Clean Rooms

### 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. Please refer to the DUR-A-FLEX “[Surface Preparation Guide](#)” for detailed instructions.

### 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 full 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 laitance or a small amount of the substrate is attached, further preparation is required. Refer to the “[Bond Test Guide](#)” for more information.

### VENTILATION

Prior to any application, proper “negative pressure” ventilation must be established. Refer to the “[CRYL-A-FLEX Ventilation Guidelines](#)” for details.

### APPLICATION METHOD

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 - 125 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. Roller coats are applied with 1/2 inch (13 mm) nap roller. Rough substrates may require a longer nap to avoid puddles. 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. 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 30 - 60 minutes.

The first pigmented (8 ounces of CRYL-A-COLOR per gallon) (75 ml per liter) coat of CRYL-A-GLAZE is roller applied at 100 Sq Ft per gallon (2.4 m<sup>2</sup> per liter). DUR-A-FLEX decorative color chip is broadcast at a rate of 0.1-0.15 lbs per Sq Ft (0.5-0.75 kg per m<sup>2</sup>) into the wet material. Keep Broadcast 6 feet (1.8 m) back from wet edge. After the material has cured, sweep/blow off the excess/loose chips.

Apply a second coat of non-pigmented CRYL-A-GLAZE at 80-100 Sq Ft per gallon (2.6-2.4 m<sup>2</sup> per liter) and broadcast the color chips at the same rate. Let the system cure and sweep and vacuum off the excess/loose chips. Brush the surface with a floor buffer of medium stiffness, and vacuum again.

The first of two topcoats of CRYL-A-TOP is applied at 80-90 Sq Ft per gallon (2.6-2.4 m<sup>2</sup> per liter). After the material has cured, sand with a floor buffer and 60 or 80 grit paper to achieve desired texture. For additional slip resistance aluminum oxide can be broadcast into the first wet topcoat at a ratio of 1.5-2 lbs per 100 Sq Ft (0.07-0.7 per m<sup>2</sup>).

A second topcoat of CRYL-A-TOP is applied at 100-125 Sq Ft per gallon (2.4-3 m<sup>2</sup> per liter).

#### **CURE**

CRYL-A-CHIP components will cure typically 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 pre-maturely.

#### **PACKAGING**

CRYL-A-CHIP 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. DUR-A-FLEX decorative chip is available in 10 lb (4.5 kg) or in 55 lb (25 kg) boxes.

#### **JOINT GUIDELINES**

Refer to the [Joint Guidelines](#) for complete details on our website.

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

#### **TECHNICAL INFORMATION**

CRYL-A-CHIP 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.

#### **CLEANING**

This product is considered to be part of a low maintenance flooring solution, however, certain textures and service environments require specific procedures. Always apply the material at the recommended spread rate. Please refer to the master "Cleaning Guide".

#### **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-CHIP 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 if necessary, 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.**