

CRYL-A-FLOOR

GENERAL

CRYL-A-FLOOR is 100% reactive, fast curing, high strength, methyl methacrylate (MMA) based, acrylic flooring system. A 1/8 inch (3 mm) overlay system is composed of primer, double broadcast and topcoat(s). Surface finish is slip resistant. This system cannot be thinned with solvents.

COLORS

CRYL-A-FLOOR is available in assorted standard colors. Please refer to the Standard Color Chart on our website. Custom colors are available upon request.

TYPICAL USES

- Laboratories
- Traffic Aisles
- Heavy Industry
- Walk In Coolers
- Loading Docks
- Manufacturing Areas
- Food Processing Areas
- Bottling Areas
- Freezers
- 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 for more information.

MOISTURE CONCERNS

Please refer to the Floor Evaluation Guidelines 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 only 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. Please refer to the CRYL-A-FLEX Ventilation Guidelines 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.**

NOTE: For each application of material and before mixing, mark your batches to ensure you achieve your spread rate targets. This is best accomplished by dividing your target spread rate by the width of the area being coated (or your planned wet edge). Example: If your spread rate is 100 square feet and your area is 20 feet wide you would make a mark every 5 feet (100 divided by 20 = 5).

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 - 2.5 m² per liter) to achieve an even, puddle free surface. Substrates that are very porous may require an additional coat. 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 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 30 - 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 first coat of pigmented CRYL-A-GLAZE G-201 is roller applied at 80 - 100 Sq Ft per gallon (2.0 - 2.5 m² per liter). Aggregate is broadcast at an approximate rate of 0.3-0.5 lbs per Sq Ft (0.45-0.75 kg per m²). **Do not over broadcast, only apply enough sand to cover the wet resin,** over broadcasting can result in the resin not curing properly. Keep broadcast 6 feet (1.8 meters and below) back from the wet working edge, as this will make it easier for the roller man. 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.

Note: On aggregate, a double broadcast with Flintshot sand will yield a 1/8 inch (3 mm) thick floor.

The second coat of pigmented CRYL-A-GLAZE G-201 is roller applied at 60 - 80 Sq Ft per gallon (1.5 - 2.0 m² per liter) (based upon broadcast aggregate size). Aggregate is broadcast at .3-0.5 lbs Sq Ft (0.45-0.75 kg per m²). Let material cure and again remove all excess aggregate.

The cured system is top coated twice with pigmented CRYL-A-TOP T-301 sealer. The first topcoat is applied by roller at 60 – 80 sq. ft. per gallon. The second topcoat is applied by roller at 80 – 100 sq. ft. per gallon. If a smoother finish is required, the surface may be sanded before the second topcoat is applied.

JOINT GUIDELINES

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

CURE

CRYL-A-FLOOR 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 may pick up dirt, and it may wear prematurely.

PACKAGING

CRYL-A-FLOOR 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. Aggregate is available in 50 lb (22.7 kg) and 100 lb (45 kg) bags.

TECHNICAL INFORMATION

CRYL-A-FLOOR 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.

CLEANING

This product is part of a low maintenance flooring solution, however, certain textures and service environments require specific procedures. 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-FLOOR 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.

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.**

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.

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