DUR-A-FLEX
INNOVATION FROM THE FLOOR UP

APPLICATION INSTRUCTIONS

95 Goodwin Street
East Hartford, CT 06108

Tel: 800-253-3539 • Fax: 860-528-2802 • www.dur-a-flex.com • contact_us@dur-a-flex.com

CRYL-A-COVE

GENERAL

CRYL-A-COVE is a 100% reactive, fast curing, high strength, methyl methacrylate (MMA) based, acrylic reactive resin. It is a thixotropic resin designed to make cove bases while forming a monolithic bond with other CRYL-A-FLEX systems.

SURFACE PREPARATION

The substrate must be dry and free from oil, grease, dirt, bituminous and other contaminants. CRYL-A-COVE is to be applied over fully cured CRYL-A-PRIME P-101.

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.

VENTILATION

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

PACKAGING

CRYL-A-COVE is available in 1-gallon (3.8 liter) cans and 5-gallon (19 liter) pails.

APPLICATION METHOD

NOTE: It is recommended to install the cove base with top coats prior to installing the floor.

To ensure proper thickness and to eliminate cure problems, you must install a cove strip, typically 1/8 inch (3 mm) prior to installation. Install the cove strip lower than the desired height of the cove so the top edge of the trowel rides above the strip. Be sure to protect the wall surface with painter's tape or duct tape prior to installation.

All MMA resins require the addition of CRYL-A-CURE (BPO) to cure. The proper amount of BPO for CRYL-A-COVE can be found on the chart below. The proper amount of BPO for all other MMA resins can be found on the CRYL-A-FLEX Mix Chart on our website. BPO usage is a function of the material and substrate temperature. **Therefore, the temperature of the substrate must be measured prior to any mixing or application of material.**

Apply CRYL-A-PRIME P-101 with a 4" (100 mm) brush or roller at 80-125 Sq Ft per gallon (2-3m² per liter). To aid in the application of the cove, broadcast Q-28 or Flintshot aggregate into the wet primer. This will make it easier to "hang" the cove. Substrates that are very porous may require an additional primer application. All roller coats are applied with 3/8 or ½ inch (13 mm) nap rollers. **Allow the primer to fully cure before installing the cove base.** 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 mix is 1 quart (1 liter) of CRYL-A-COVE resin, 2 quarts (1.9 liters) of Q-28 (Flintshot) or 1.5 quarts (1.4 liters) of Q-11 (Q-Rok) and the proper amount of CRYL-A-CURE at the following temperatures:

40 F	**2** ounces per quart
50 F	**1.5** ounces per quart
60 F	**1.25** ounces per quart
70 F	**1** ounce per quart
80 F	**0.75** ounces per quart
90 F	**0.5** ounces per quart

The mix at 1/8 inch (3 mm) thick and a 4-inch (100 mm) high cove will yield 8-10 linear feet (2.4 - 3 meters).
Mix the batch in a clean 2-gallon (8 liter) plastic bucket as follows:

Pour in 1 quart (1 liter) of the CRYL-A-COVE, the proper amount of CRYL-A-CURE based on substrate temperature and mix with a 3-inch Jiffler blade for 30 seconds. All of the CRYL-A-CURE should be completely dissolved. Add 2 quarts (1.9 liters) of Q-28 aggregate or 1.5 quarts (1.4 liters) of Q-11 and mix for an additional 1 minute. Move the mixing blade side to side in a circle and up and down, being sure to mix the top, middle and bottom of the pail.

Do not mix in a 5-gallon pail because the pail is too large for the amount of material and thorough mixing will not be achieved.

Using a 4-inch by 12-inch flat trowel distribute the entire batch along the base of the cove. Push the material up the wall to the approximate thickness. Using the proper height cove tool, compact and finish off the surface using even, steady pressure. Do not over work back and forth as this may leave an "open" surface that may not cure properly, will be rough and attract dirt.

The **working time** is approximately 8 minutes @ 70°F.

Clean tools often through the installation with CRYL-A-CLEAN. Cleaning the trowel before the final finish will remove the stickiness of the cove material and help achieve a smooth, uniform appearance.

The cured system is topcoated with one of the CRYL-A-TOP sealers, typically CRYL-A-TOP T-301. Apply two topcoats with a 4 inch (100 mm) paint brush **before** installing the floor. This will eliminate the potential of leaving a puddle of resin at the base of the cove.

CURE

CRYL-A-COVE will be dry to the touch in 45-60 minutes. Be sure the temperature of the cove base has cooled to the original substrate temperature. At this time it is ready for subsequent applications.

CRYL-A-CHIP COVE BASE

When installing a chip system, follow the application instructions above using Flintshot silica sand to form the cove. When the cove has cured and cooled, mix a quart of CRYL-A-COVE resin with the appriopriate amount of BPO and brush onto the cove. The approximate coverage rates per quart are: 80 linear feet @ 4" and 55 linear feet @ 6". While the resin is still wet broadcast the chips onto the cove or use a hopper gun with a small compressor set to 25-30 psi. Allow to cure, sweep up the excess chips and repeat the process. Prior to applying the topcoats, the surface may be lightly hand sanded with 100 grit screens or sandpaper. Be sure to thoroughly sand the radius. A medium bristle nylon brush can also be used to smooth the surface instead of sandpaper. After the first topcoat has cured, hand sand or mechanically sand the the surface with a vibrating sander with 80 – 100 grit screens or sandpaper. Two topcoats are recommended, however if a smoother surface is desired a third topcoat can be applied.

CHEMICAL RESISTANCE

This product is resistant to most common chemicals. Please refer to the master Chemical Resistance Chart on our website for actual resistance to specific chemicals/reagents.

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-COVE 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 Material Safety Data Sheet is read and understood.