

CRYL-A-STAT ESD-401

GENERAL

CRYL-A-STAT ESD-401 is a 100% reactive static dissipative coating, methyl methacrylate (MMA) based, acrylic reactive resin. It is formulated to form a monolithic bond with other DUR-A-FLEX systems and to be UV resistant.

BENEFITS

- VOC compliant-<100 g/L
- Fast cure, full strength in less than one hour
- UV resistant
- Seamless, no cold joints, always bonds to itself
- Prevents electrical charge accumulation

COLORS

CRYL-A-STAT ESD-401 is available in silver grey.

TYPICAL USES

CRYL-A-STAT ESD-401 is intended to be used in areas where a static dissipative coating is needed

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. Note, if shot blasting, be careful of blast overlap lines as they may be visible through the coating. Please refer to the DUR-A-FLEX “**Surface Preparation Guide**” for detailed instructions.

MOISTURE CONCERNS

Moisture vapor transmission in the slab should be measured prior to application of polymeric systems to ensure a long lasting installation. Refer to the “**Moisture Assessment Guide**” for more information.

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**” for procedure.

VENTILATION

Prior to any application, proper “negative pressure” ventilation must be established. 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.**

Cryl-A-Stat ESD Mixing Chart

<u>Substrate Temp (F)</u>	<u>Ounces of BPO/ Gallon</u>
<u>40</u>	<u>4.0</u>
<u>50</u>	<u>3.5</u>
<u>60</u>	<u>3.0</u>
<u>70</u>	<u>2.5</u>
<u>80-90</u>	<u>2.0</u>

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 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 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 nap rollers. 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.

CRYL-A-STAT ESD-401 can be brush or roller applied. Prior to use, the CRYL-A-STAT ESD-401 must be properly mixed to ensure that the pigment that has settled to the bottom

is dispersed. The appropriate amount of CRYL-A-CURE is determined by the use of the CRYL-A-STAT ESD-401 Mixing Chart and is a function of the material and substrate temperature.

CRYL-A-STAT ESD-401 should only be used as a sealer. Ground connections at 30 foot intervals must be installed for static dissipative flooring systems.

CRYL-A-STAT ESD-401 is applied in two coats at a rate of 80-115 square feet per gallon per coat, depending on the texture/profile of the surface.

CURE

CRYL-A-STAT ESD-401 will dry to the touch, typically in 45 minutes. At this time it is ready for subsequent applications or for use.

PACKAGING

CRYL-A-STAT ESD-401 is available in 5-gallon (19 liter) pails.

TECHNICAL INFORMATION

CRYL-A-STAT ESD-401 is part of a wide range of special repair and wearing materials supplied by DUR-A-FLEX. If you require further information on this or any other of our products please contact our Technical Department.

PHYSICAL CHARACTERISTICS

Percent Reactive	100%
VOC	<100 g/L
Pot Life @ 68 F	10-15 minutes
Cure Rate @ 68 F	45 minutes
Recoat Time	45 minutes
surface resistivity ASTM D257	1x106 to 1x108

CHEMICAL RESISTANCE

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

CLEANING

This product is part of a low maintenance flooring solution, however, certain textures and service environments do require certain procedures. Please refer to the master Cleaning Guidelines on our website for details.

STORAGE CONDITIONS

Store in a cool and dry place, below 85 F (30C), out of direct sunlight. Do not store near open flame or food. The shelf life is 6 months from ship date in the unopened container.

IMPORTANT: Make sure to properly mix the product before use to ensure that all pigment that has settled to the bottom is dispersed. For best results use a

dispersion blade with a low speed drill. DO NOT MIX THE MATERIAL OVER 1,000 RPM's, as this will tear the conductive material apart. When application is ready add the appropriate amount of BPO and mix with dispersion blade for 1 minute.

CAUTION

CRYL-A-STAT ESD-401 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.

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

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