



# KEY #625-ESD

## ELECTRO-STATIC CONTROL EPOXY COATING

### DESCRIPTION

**KEY RESIN #625-ESD** is an ultra high solids bis-F epoxy and modified novolac epoxy floor coating designed to provide electrostatic control properties to various surfaces including concrete or other non-conductive substrates. The use of a conductive primer will transmit conductive readings through **Key #625-ESD** if applied no thicker than 15 mils. **Key #625-ESD** provides excellent bond to concrete as well as high impact and wear.

### KEY ADVANTAGES

- Superior Chemical and Stain Resistance
- Bonds Well to Cool, Damp, Substrates
- Easy to Clean
- Good Abrasion Resistance
- High Gloss
- Consistent Electrical Resistance Readings When Tested at 10-500 Volts
- Available in Static Dissipative Range of  $1 \times 10^6$  to  $1 \times 10^9$  ohms per EOS/EDS Standards
- Dissipates a 5000 Volt Charge to Zero in less than 0.1 Seconds @ 72° and 12% RH.

### KEY CONSIDERATIONS

- Substrate temperature must be a minimum of 55-60°F and maximum of 85°F
- Substrate must be free of dirt, waxes, curing agents and other foreign materials.
- Relative Humidity should be 30-85% and substrate temperature must be 5°F above the measured dew point.
- Test for moisture vapor transmission using anhydrous calcium chloride testing per ASTM-F-1869 and/or in situ relative humidity probe testing per ASTM-F-2107. Maximum MVT is 3 pounds per 1000 sq ft per 24 hours or 80% RH. If above these values, use **Key #635-MVT** or **Key Epocon SL** per Manufacturer recommendations.

### COMPOSITION

Ultra High Solids Bis-F Epoxy and Novolac Epoxy Resin, Modified Cycloaliphatic Amines, and Fillers.

### COLOR SELECTION

**KEY RESIN #625-ESD** is available in Key Standard Colors and Custom Colors as approved.

## APPLICATION

### SURFACE PREPARATION

**Surface Preparation** is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared as outlined in **KEY RESIN COMPANY'S TECHNICAL BULLETIN #1**. Work must be performed by trained or experienced contractors or maintenance personnel. The **KEY RESIN COMPANY Technical Service Department** is pleased to answer any questions.

### INSTALLATION

**KEY RESIN #625-ESD** is normally spread with a trowel or squeegee and back-rolled with a 3/8" medium nap roller. Care should be taken to minimize the entrapment of air caused by over-rolling. **KEY RESIN #625-ESD** can also be applied by airless or conventional spray.

### CLEAN-UP

Clean skin with soap and water. Tools and equipment should be cleaned with xylene or lacquer thinner.

### COVERAGE

**KEY RESIN #625-ESD** will yield 12-15 mils when spread at 100-130 sq ft/gal. 15 mils is considered the maximum thickness.

### MAINTENANCE

After completing the application of **KEY RESIN #625-ESD**, the installer should provide the owner with maintenance instructions.

### AVAILABILITY

**KEY RESIN'S** products are available throughout the United States, Canada, and a number of other countries. Contact the **KEY REPRESENTATIVE** in your area for details.

## PHYSICAL DATA

<b>Flammibility</b> ASTM D-635	Self Extinguishing
<b>Fungus &amp; Bacteria Growth</b> Mil-F 52505§4.4.2.11	Will not support growth of fungus or bacteria when subjected to mildew and bacteria tests.
<b>Hardness</b> ASTM D-2240	70-80 Shore D
<b>Bond Strength to Concrete</b> ASTM D-4541	>300psi (100% concrete failure)
<b>Water Absorption</b> ASTM D-570	Nil
<b>Thermal Shock Resistance</b> ASTM C-884	Passes
<b>Abrasion Resistance</b> ASTM D-6040	75-100mgs
<b>Impact Resistance</b> ASTM D-2794	100 in-lbs direct

## TECHNICAL DATA

Pot Life	40-50 min. (at 73°F )
Foot Traffic	14-16 hours (at 73°F )
Complete Cure	5 days (at 73°F )
VOC Content	Less than 50gm/l
Weight per gallon	10.5-11.0 #/gal.
Glass, 60°	Greater than 80

## TECHNICAL SERVICE

**KEY RESIN COMPANY** and **KRC ASSOCIATES, INC.** provide services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **KEY REPRESENTATIVES** are available to assist you at any time. CALL (513) 943-4225.

## **WARRANTY**

**Key Resin Company ("Key")** warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed, and applied in accordance with recommendations of **Key**. If any product fails to meet this warranty, the liability of **Key** will be limited to replacement of any non-conforming material if notice of such non-conformity is given to **Key** within (1) one year of delivery of materials. **Key** may in its discretion refund the price received by **Key** in lieu of replacing the material. No customer, distributor, or representative of **Key** is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of **Key**. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. **Key** reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. **KEY'S** OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND **KEY** SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.