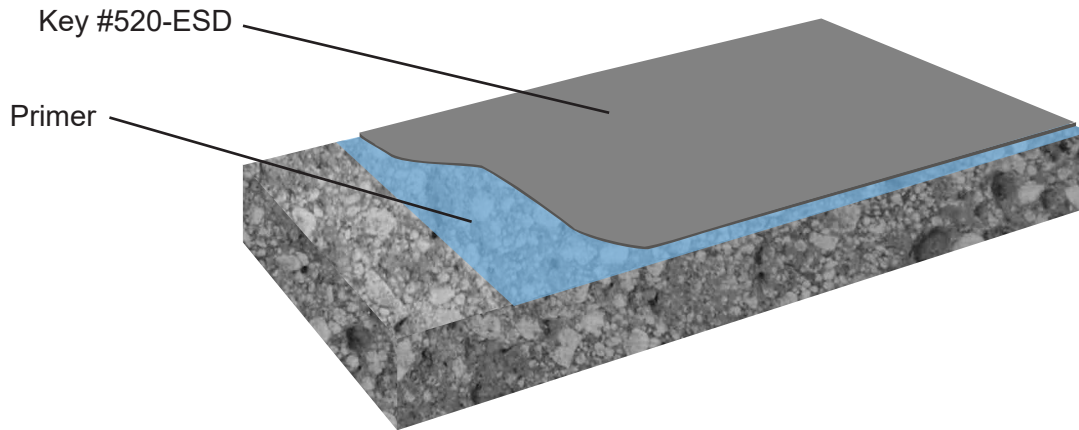


KEY THIN-FILM ESD COATING

Technical Data Sheet



DESCRIPTION

KEY THIN-FILM ESD COATING is a 100% solids bis-A epoxy floor coating designed to provide electrostatic dissipative (ESD) properties to substrates including concrete and other non-conductive surfaces. **KEY THIN-FILM ESD COATING** provides chemical resistance, high impact, wear resistance and excellent bond to the substrate. Conductivity in the ESD range of 1×10^6 to 1×10^9 ohms resistance is provided.

KEY ADVANTAGES

- Abrasion, chemical & stain resistant
- High gloss and excellent cleanability
- 100% solids low odor application
- Consistent electrical resistance readings when tested at 10 to 500 volts (dissipates a 5000 volt charge to zero in less than 0.1 second @ 72°F and 12% relative humidity)

TYPICAL USES

- Computer rooms
- Circuit board manufacturing facilities
- Aircraft Hangars
- Areas requiring protection of electronic components from electrostatic charge damage
- Electronic Cleanrooms
- Numerous other uses-Consult with Key Resin

PHYSICAL PROPERTIES

Test Name	Method	Value
Color		Key Standard Colors and Custom Colors
VOC (Volatile Organic Content)	EPA Method 24	Refer to Individual Product Component Data Sheet
Adhesion to Concrete	ASTM D7234	300-400+ psi (Concrete Failure, varies by concrete strength)
Compressive Strength	ASTM C579	8,500 psi
Flexural Strength	ASTM C580	10,000 psi
Hardness, Shore D	ASTM D2240	75-80
Tensile Strength	ASTM D412	6,000 psi
Flammability	ASTM D-635	Self Extinguishing
Abrasion Resistance	ASTM D4060, CS17 Wheel, 1000 cycles	75-100 mg
Conductivity Resistance	ANSI/ESD-S7.1	1×10^6 to 1×10^9 ohms
Static Charge Decay	MIL-B-81705B	Dissipates a 5,000 volt charge to zero in <0.1 seconds

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APPLICATION

SURFACE PREPARATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared and tested for moisture as outlined in **Key Resin Technical Bulletin #1**. If moisture testing confirms excessive levels of moisture, apply moisture mitigation system recommended by **Key Resin**. Work must be performed by experienced contractors. The **Key Resin Technical Service Department** is available to answer any questions.

INSTALLATION

KEY CONTAIN SL material components are mixed on site. Refer to the detailed installation instructions document and **Key Resin Technical Service**.

CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with xylene or lacquer thinner. Consult Safety Data Sheet (SDS) for safety and health precautions.

MAINTENANCE

After completing the application of **KEY THIN-FILM ESD SYSTEM**, the installer should provide the owner with maintenance instructions. If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly. **KEY THIN-FILM ESD** is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing using the appropriate pad is recommended for all surfaces having a non-skid texture. Waxing is optional. Long periods of heavy traffic may cause wear patterns necessitating a maintenance application of a finish coat. Refer to Technical Bulletins #3 and #3-A for additional recommendations.

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.

SYSTEM OPTIONS

- Installation of grounding tape, grounding plates for connection to true earth ground

TECHNICAL SERVICE

Key Resin Company provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **Key Resin Sales/Technical Representatives** are available to assist. Telephone 888.943.4532 or visit www.keyresin.com.

AVAILABILITY

Key Resin materials are available throughout the United States, Canada, China, and a number of other countries. Contact the **Key Resin Representative** in your area for details.

