



KEY #620-ESD/CONDUCTIVE

DESCRIPTION

KEY RESIN #620-ESD/CONDUCTIVE is a 100% solids bis-F and modified novolac epoxy floor coating designed to provide electrostatic control properties to various surfaces including concrete or other non-conductive substrates. **KEY #620-ESD/CONDUCTIVE** is ideal for chemical and solvent storage areas requiring electrostatic dissipative surfaces, provides excellent bond to concrete as well as high impact and wear. Application over a non-conductive primer or basecoat will transmit ESD readings of 1×10^6 to 1×10^9 ohms through **KEY #620-ESD/CONDUCTIVE**. Application over a conductive primer or basecoat will transmit conductive readings of 1×10^4 to 1×10^6 ohms through **KEY #620-ESD/CONDUCTIVE**.

KEY ADVANTAGES

- Excellent Resistance to Strong Acids, Alkalis and Most Industrial Chemicals and Solvents
- 100% Solids—Low Odor Application and Cure (0-VOC)
- Bonds Well to Cool, Damp Substrates
- High Gloss, Easy to Clean
- Good Abrasion Resistance
- Consistent Electrical Resistance Readings When Tested at 10-500 Volts
- Tests in the Static Dissipative Range of 1×10^6 to 1×10^9 ohms per EOS/EDS Standards when applied over Non-Conductive Primer or Basecoat
- Tests in the Conductive Range of 1×10^4 to 1×10^6 ohms when applied over Conductive Primer or Basecoat
- 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.
- Relative Humidity should be 30-85% and substrate temperature must be 5°F above the measured dew point.
- Refer to Key Resin Technical Bulletin #1 regarding substrate requirements and surface preparation.
- Must be applied in a single coat at 8-10 mils, maximum thickness of 12 mils. Do not exceed 12 mils or loss of conductivity may result, requiring reapplication of primer/basecoat and/or Key #620 ESD/Conductive.
- Final conductivity testing requires 72 hours cure time to obtain final readings. Key #620 ESD/Conductive applied over conductive primer or basecoat will test in low ESD range prior to 48-72 hours cure at 75°F.

COMPOSITION

100% Solids, Bis-F Epoxy and Novolac Epoxy Resin, Modified Cycloaliphatic Amines, and Fillers

APPLICATION

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 available to answer any questions. Installation of **KEY #620-ESD/CONDUCTIVE** will vary with application. Typically spread in a single coat at 160-200 sq. ft./gallon with a squeegee and lightly back-roll with a medium or short nap roller. 12 mils are considered the maximum total thickness. Care should be taken to minimize the entrapment of air caused by over rolling. For complete instructions, consult installation guide, your **Key Representative** or **Key Resin Technical Services**.

CLEAN-UP

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

COVERAGE

KEY #620-ESD/CONDUCTIVE will yield approximately 8-10 mils when spread at 160-200 sq. ft./gallon.

COLOR

KEY #620-ESD/CONDUCTIVE is available in Key Standard Colors and Custom Colors as approved. Standard colors may vary slightly from Key Resin Standard Color Card.

TECHNICAL DATA

Viscosity @ 75°F	1,000-1,500 cps
Mixing Ratio by volume	3 Parts A to 1 Part B by Volume
Solids Content by volume	100% by volume
Volatile Organic Content	0
Weight per gallon, mixed	11.0-11.5 lbs. per gallon mixed
Pot Life	20-25 min. @75°F
Dry to Touch	6-7 hours @ 75°F
Re-Coat (for ESD only)	8-12 hours @ 75°F
Light Service	24 hours @ 75°F
Full Cure & Maximum Resistance	5 days

CHEMICAL RESISTANCE

REAGENT	RATING
Acetic Acid-10%, 30%	R
Acetone	L
Ammonia Hydroxide-38%	R
Beer	R
Bleach	L *
Brake Fluid	R
Citric Acid-30%	R
Citric Acid-40%	R
Crude Oil	R
Diesel Fuel	R
Ethylene Glycol	R
Fatty Acids	R
Gasoline	R
Hydrochloric Acid-37%	R
Lactic Acid-50%	R

Lactic Acid-80%	L *
Methyl Ethyl Ketone	R
Methylene Chloride	L
Nitric Acid-10%	R *
Peroxide-35%	R
Phosphoric Acid	R *
Skydrol	R
Sodium Hydroxide-50%	R
Sulfuric Acid-98%	R *
Toluene	R
Urea	R
Vinegar	R
Xylene	R

R - Recommended for continuous service

L - Limited exposure, occasional spills

* - May cause slight stain or discoloration

AVAILABILITY

KEY RESIN products are available throughout the United States, Canada and a number of other countries. Contact the **KEY RESIN Representative** in your area for details or visit www.keyresin.com.

MAINTENANCE

After completing the application of **KEY #620-ESD/CONDUCTIVE**, the installer should provide the owner with maintenance instructions.

KEY #620-ESD/CONDUCTIVE is easily cleaned with neutral soaps or detergents. Refer to Key Resin Technical Bulletins #3 and #3-A for additional details.

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 RESIN Representatives** and the **KEY RESIN COMPANY Technical Service Department** are available to assist you. CALL (888)943-4532 or visit www.keyresin.com.

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.**