

KEY CONDUCTIVE EPOXY

Product Information Sheet



DESCRIPTION

KEY CONDUCTIVE EPOXY is a two component, 100% solids epoxy floor coating that utilizes the latest in conductive floor technology. **KEY CONDUCTIVE** provides a chemical resistant, conductive surface for use in electronic component plants, paint and solvent storage areas, ammunitions facilities, or hazardous materials storage areas. **KEY CONDUCTIVE** transmits conductive readings of 1×10^4 to 1×10^6 ohms.

KEY ADVANTAGES

- Good chemical and stain resistance
- Gloss finish, easy to clean
- Conductive and non-sparking; tests in the conductive range of 1×10^4 to 1×10^6 ohms resistance
- Low odor for use in occupied areas
- Meets USGBC LEED criteria for low VOC

KEY CONSIDERATIONS

- Substrate temperature must be a minimum of 50°F
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials
- Requires skilled installers to assure successful results

COLOR SELECTION

KEY CONDUCTIVE is available in **Key Resin Standard Colors** and custom colors with lab approval, longer lead time and possible added cost. Standard colors will vary slightly from **Key Resin Standard Colors** due to the conductive filler content.

COMPOSITION

100% solids epoxy and modified cycloaliphatic amines with a variety of graded ceramic and conductive fillers.

COVERAGE

Two coats of **KEY CONDUCTIVE** will yield approximately 60-65 mils when spread at 50-55 ft² per gallon per coat.

CURE/DRY TIME

| | |
|-----------------------------|------------------|
| Working Life | 20-25 min @ 75°F |
| Recoat | 12-16 hrs @ 75°F |
| Light Foot Traffic Service | 24 hrs @ 75°F |
| Full Cure & Max. Resistance | 5 Days |

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 Technical Bulletin #1**. Work must be performed by trained or experienced contractors or maintenance personnel. The **Key Resin Technical Service Department** is available to answer any questions.

INSTALLATION

KEY CONDUCTIVE will vary with application and type of system. As a coating, **KEY CONDUCTIVE** is typically spread with a notched trowel or notched squeegee and backrolled with a medium to short nap roller. Care should be taken to minimize the entrapment of air caused by over-rolling. For complete installation instructions, contact **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.

AVAILABILITY

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

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 you. Telephone 888.943.4532 or visit www.keyresin.com.

MAINTENANCE

After completing the application of **KEY CONDUCTIVE**, the installer should provide the owner with maintenance instructions. **KEY CONDUCTIVE** is easily cleaned with neutral soaps or detergents. Refer to **Key Resin Technical Bulletin #3** and **#3A** for additional recommendations.

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TECHNICAL DATA

| | |
|--|--|
| Mixing Ratio | 2 Parts A:1 Part B by Volume |
| Solids Content | 100% Solids by Volume |
| Volatile Organic Content (VOC) (EPA Method 24) | 0 g/L, compliant to low VOC Rule 1113 in all 50 states |
| Weight/gal | 11.0 - 11.5 lbs/gal, Mixed |
| Viscosity @ 75°F | 1,000 - 1,500 cps |

PHYSICAL PROPERTIES

| | | |
|--|--|---|
| Volatile Organic Content (VOC) (EPA Method 24) | 0 g/L, compliant to low VOC Rule 1113 in all 50 states | |
| Adhesion to Concrete | ASTM D7294 | 300-400+ psi (Concrete Failure, varies by concrete strength) |
| Compressive Strength | ASTM C579 | 14,000 psi |
| Hardness, Shore D | ASTM D2240 | 80-85 |
| Tensile Strength | ASTM D412 | 5,500 psi |
| Flammability | ASTM D635 | Self Extinguishing |
| Abrasion Resistance | ASTM D4060, CS17 Wheel, 1000 cycles | 45 mg |
| Conductivity Resistance | ANSI/ESD-S7.1 | 1x10 ⁴ to 1x10 ⁶ ohms |
| Static Charge Decay | MIL-B-81705B | Dissipates a 5,000 volt charge to zero in <0.1 seconds |

CHEMICAL RESISTANCE

| REAGENT | RATING |
|-------------------------|--------|
| Acetic Acid - 5% | L |
| Acetone | L |
| Ammonia Hydroxide - 38% | L |
| Beer | R |
| Bleach | L* |
| Brake Fluid | R |
| Citric Acid - 30% | R |
| Citric Acid - 40% | L |
| Crude Oil | R |
| Diesel Fuel | R |
| Ethylene Glycol | R |
| Fatty Acids | L |
| Gasoline | R |
| Hydrochloric Acid - 15% | R |
| Lactic Acid - 15% | R |
| Lactic Acid - 50% | L |
| Methyl Ethyl Ketone | L |
| Nitric Acid - 10% | R |
| Orange Juice | R |
| Peroxide - 35% | L |
| Phosphoric Acid - 85% | L |
| Skydrol | R |
| Sodium Hydroxide - 50% | R |
| Sulfuric Acid - 20% | R |
| Toluene | L |
| Urea | R |
| Vinegar | L |
| Xylene | L |

R - Recommended for continuous splash/spill service

L - Limited recommendation for 8 hours or less exposure time, requires more frequent cleanup, occasional spills only.

*May cause slight stain or discoloration

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.

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