



KEY CONDUCTIVE

DESCRIPTION

KEY CONDUCTIVE is a two component, 100% solids epoxy floor coating that utilizes the latest in conductive floor technology. Able to be installed as a coating or as a component to **KEY MORTAR SL** and **KEY MORTAR STD**, **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 ADVANTAGES

- Superior Chemical & Stain Resistance
- Easy Application
- Conductive and Non-Sparking: 25,000-1,000,000 ohms Resistivity
- Low Odor for use in Occupied Areas (0-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.

COMPOSITION

100% Solids Epoxy and Modified Cycloaliphatic Amines with a variety of graded ceramic and conductive fillers.

Also available as **KEY CONDUCTIVE NOVOLAC** for superior performance and chemical resistance.

APPLICATION

SURFACE PREPARATON

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** service department is pleased to answer any questions.

INSTALLATION

KEY CONDUCTIVE is carefully spread with a cement finishing trowel in one direction. Two coats of **KEY CONDUCTIVE** are required for every installation. The application of the second coat is applied in the direction perpendicular to the first coat. Consult your **KEY REPRESENTATIVE** for specific installation instructions.

CLEAN UP

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

COVERAGE

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

KEY CONDUCTIVE MORTAR is trowel applied at $\frac{3}{16}$ – $\frac{1}{4}$ inch thick.

COLOR SELECTION

KEY CONDUCTIVE is available in Key Standard Colors and Custom Colors as approved.

KEY CONDUCTIVE MORTAR is available in Black only.

TECHNICAL DATA

Typical Performance Properties

| | |
|---|--|
| Flammability ASTM D-635 | Self Extinguishing |
| Fungus & Bacteria Growth MIL-F-52505 §4.4.2.11 | Will not support growth of fungus or bacteria when subjected to mildew and bacteria tests. |
| Hardness ASTM D-2240 | 80-85 Shore D |
| Bond Strength to Concrete ACI Comm #503, Bulletin 59-43 | 300 psi (100% concrete failure) |
| Resistance to Elevated Temperature MIL-D-3134F §4.7.4 | No slip or flow at required temperature of 158°F |
| Coefficient of Friction ASTM D-2047 | 0.80 |
| Water Absorption ASTM C-413 | 0.5% |
| Thermal Shock Resistance ASTM C-884 | Passes |
| Abrasion Resistance ASTM D-6040 | 15 mg |
| Impact Resistance MIL-D-3134F §4.7.3 | Withstands 16 ft./lbs. without cracking, delamination, or chipping. |
| Compressive Strength ASTM C-579, 7 days | 14,000 psi |
| Tensile Strength ASTM C-307 | 5,500 psi |
| Thermal Coefficient of Expansion ASTM C-531 | 28 x 10 ⁻⁶ |
| Flexural Modulus of Elasticity ASTM C-580 | 970,000 psi minimum @ 7 days |
| Shrinkage ASTM C-531 | 0.5% Maximum |
| Flame Spread Index ASTM E-162 | 25 Maximum |

CURE/DRY TIME

| | |
|---------------------------------------|---------------------------------|
| Pot Life | 20-25 minutes @ 75°F |
| Re-Coat | 12-16 hours @ 75°F |
| Light Service | 24 hours @ 75°F |
| Mixing Ratio | 2 Parts A to 1 Part B by Volume |
| Volatile Organic Content (VOC) | -0- |

AVAILABILITY

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

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.

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 (888)943-4532.

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.

CHEMICAL RESISTANCE

| REAGENT | RATING |
|-----------------------|--------|
| Acetic Acid-10% | R |
| Acetone | L |
| Ammonia Hydroxide-38% | R |
| 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 | R |
| Gasoline | R |
| Hydrochloric Acid-37% | R |
| Lactic Acid-50% | R |
| Lactic Acid-80% | 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-50% | R |
| Toluene | L |
| Urea | R |
| Vinegar | L |
| Xylene | L |

R-Recommended for continuous service.

L-Limited Recommendation, occasional spills.

*-May cause slight stain or discoloration.