

KEY #534 CONDUCTIVE PRIMER

Product Data Sheet



DESCRIPTION

KEY #534 CONDUCTIVE EPOXY PRIMER is a water-based, two component, carbon-filled conductive epoxy primer designed for use with various **Key Electrostatic/Conductive Systems**. **KEY #534** has very low odor making it suitable for use in occupied buildings.

KEY ADVANTAGES

- For use with Key Electrostatic/Conductive Systems
- Low odor during application and cure
- Meets USGBC LEED criteria for low VOC
- Maintains electrical conductivity performance over the wear life of the system
- Fast dry and recoat time
- Easy clean-up

KEY CONSIDERATIONS

- Substrate must be above 50°F and air relative humidity below 85% for proper curing
- Substrate must be free of dirt, waxes, curing agents and other foreign materials
- Excessive moisture in the substrate will require a moisture vapor control treatment
- Concrete substrate must be insulated with a non-conductive epoxy primer/basecoat prior to application of **KEY #534**

COLOR SELECTION

KEY #534 is available in Black.

COMPOSITION

Water-borne epoxy resin and conductive filler.

COVERAGE

KEY #534 thinned 10% applied at 160-200 ft² per gallon (8-10 wet mils) yields 3.3-4.2 mils dry film thickness. Finish is a light orange peel texture.

CURE/DRY TIME

Working Life	20-30 min. @ 75°F
Dry to Touch	8-10 hrs @ 75°F
Recoat Must test <10,000 ohms unless otherwise approved by Key Resin	12-24 hrs @ 75°F
Light Foot Traffic	24 hrs @ 75°F

APPLICATION

SURFACE PREPARATION

Surface Preparation is the most critical portion to 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. Contact **Key Resin Technical Service Department** with questions.

INSTALLATION

Premix Part B of **KEY #534** prior to splitting into half portions and combining with Part A. Split 5 gallon units into 2.5 gallon portions for easier mixing and handling. After splitting, mix 1 Part A (0.5 gallon) with 4 Parts B (2.0 gallons) for 2-3 minutes with a medium speed jiffy mixer, scraping sides and bottom of mix vessel. Continue mixing, then add 10% by volume (32 vol. oz.) clean water and continue mixing 1 additional minute. Thinning 10% yields 2.75 gallons. Roll mixed **KEY #534** at a coverage rate of 160-200 ft² per gallon (8-10 wet mils) with a 3/8" nap roller. **Important:** DO NOT apply at less than 8 mils wet film thickness or conductive readings may not test properly. Care should be taken to avoid puddles. 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.

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TECHNICAL DATA

Mixing Ratio	1 Part A: 4 Parts B by Volume
Solids Content, thinned 10%	42% Solids by Volume
Volatile Organic Content (VOC) (EPA Method 24)	10 g/L, compliant to low VOC Rule 1113 in all 50 states
Weight/gal	8.75-9.00 lbs/gal, Mixed
Viscosity @ 75°F	65,500-65,800 cps

AVAILABILITY

Key Resin materials are available throughout the United States 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.

PHYSICAL PROPERTIES

Adhesion to Concrete	ASTM D7294	300-400+ psi (Concrete Failure, varies by concrete strength)
Shelf Life		6 months
Conductivity Resistance	ANSI/ESD-S7.1	<1.0x10 ⁴ ohms

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.

Rev 5/25/2023 v5.1