KEY #467-ESD URETHANE SEALER

Product Information Sheet



DESCRIPTION

KEY #467-ESD is a three component, chemical resistant, UV light resistant, ultra high solids, ESD (electrostatic dissipative) clear aliphatic polyurethane coating. **KEY #467-ESD** is a low VOC, low odor urethane that meets all federal and state environmental air quality standards. The gloss finish offers excellent abrasion resistance, chemical and stain resistance. **KEY #467-ESD** will test in the ESD range of 1,000,000 to 1,000,000,000 ohms electrical resistance and is ideal for concrete floors in electronic component assembly areas, data processing, military/aerospace, pharmaceutical plants, hospitals, and hazardous industries (dust or explosion hazards). For use in any areas where the build-up of static electricity is a concern. Available in clear only, **KEY #467-ESD** can be used as a finish coating option for most **Key Resin Systems**.

KEY ADVANTAGES

- · Superior abrasion and wear resistance
- Excellent chemical and stain resistance
- · Hot tire stain resistant
- Maintains electrical conductivity performance over the wear life of the sealer
- · Low odor for use in occupied areas
- Meets USGBC LEED criteria for low VOC

KEY CONSIDERATIONS

- Minimum/maximum application temperature: 50°F/90°F
- Minimum/maximum relative humidity: 30%/80%
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials
- Recoating requires sanding prior coat with Key Tomahawk pads or similar; will darken underlying color
- Clear Gloss only, do not use Key Urethane Pigment Packs or Satin Additive

COLOR SELECTION

KEY #467-ESD is available in Clear Gloss only. Conductive filler alters the appearance of the clear resin and will affect color tone of underlying colors. Applying a second topcoat will further darken the underlying colors. Confirm final appearance with finished samples or apply a small mock-up over existing flooring system.

COVERAGE

KEY #467-ESD Clear will yield 2.5-3.0 mils dry film thickness when spread at 500-600 ft² per gallon. Important: Do not vary significantly from this coverage rate to achieve consistent conductivity readings.

CURE/DRY TIME

Working Life	2 hrs @ 75°F, 50% RH	
Recoat (grinding required)	8-10 hrs @ 75°F, 50% RH (depends on weight of grinder used)	
General Service (Vehicle)	72+ hrs @ 75°F, 50% RH	
Light Service (Foot Traffic)	16-24 hrs @ 75°F, 50% RH	
Full Cure & Max. Resistance	5-7 Days @ 75°F, 50% RH	

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. The **Key Resin Technical Service Department** is available to answer any questions.

INSTALLATION

KEY #467-ESD is typically applied using a dip & roll procedure with a 1/4"-3/8" nap phenolic core roller, followed immediately with thorough cross-rolling. *Review detailed installation instructions document prior to use.* Care should be taken to minimize the entrapment of air caused by over-rolling. Apply material within the recommended thickness range. Do not thin material. KEY #467-ESD must be aggressively sanded prior to application of a second topcoat, Key Tomahawk pads (50-100 grit) work effectively. KEY #467-ESD is a moisture cure urethane, relative humidity will significantly affect cure speed. Refer to Installation Instructions document for important additional details. 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.

COMPOSITION

Three component, catalyzed, chemical resistant, moisture cure clear aliphatic polyurethane with conductive filler.

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TECHNICAL DATA

MIxing Ratio	4 Parts A to 1 Pat B by Volume
Solids Content (by volume) 90% Clear
Volatile Organic Content (VOC) (EPA Method 24)	<100 g/L, compliant to low VOC Rule 1113 in all 50 states

PHYSICAL PROPERTIES

Hardness	ASTM D3363	2H to 3H
Abrasion Resistance ASTM D4060 10-20 mgs CS-17 Wheel 1000 gm. load per wheel		
Conductivity Resistance	ANSI/ESD-S7.1	1x10 ⁶ to 1x10 ⁹ ohms
Static Charge Decay	MIL-B-81705B	Dissipates a 5,000 volt charge to zero in <0.1 seconds

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 #467-HS**, the installer should provide the owner with maintenance instructions. **KEY #467-HS** is easily cleaned with neutral soaps or detergents. Refer to **Key Resin Technical Bulletin #3** and **#3A** for additional recommendations.

CHEMICAL RESISTANCE

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R - Recommended for continuous splash/spill service

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 withp ublished 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 MERCHANT-ABILITY 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.

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

^{*}May cause slight stain or discoloration