

KEY #630 CONDUCTIVE NOVOLAC EPOXY

Product Information Sheet



DESCRIPTION

KEY #630 CONDUCTIVE NOVOLAC EPOXY is a 100% solids chemical resistant novolac epoxy with conductive fillers. Used as a binder/coating it is ideal for severe chemical and solvent storage areas requiring conductive and spark-proof surfaces. Applied at a nominal 30-65 mils, **KEY #630 CONDUCTIVE NOVOLAC EPOXY** offers the superior chemical resistance of a novolac resin system while maintaining a conductive surface.

KEY ADVANTAGES

- Low viscosity for improved handling during application
- Excellent resistance to strong acids, alkalis and most industrial chemicals and solvents
- Low odor for use in occupied areas
- Meets USGBC LEED criteria for low VOC
- Conductive and non-sparking, 25,000 to 1,000,000 ohms resistance

KEY CONSIDERATIONS

- Substrate temperature must be a minimum of 50°F (Contact **Key Resin** for Low Temperature Cure)
- Substrate must be free of curing agents and any foreign materials
- Concrete must be properly prepared

COLOR SELECTION

KEY #630 CONDUCTIVE NOVOLAC EPOXY is available in **Key Resin Standard Colors** and custom colors with lab approval, longer lead time and possible added cost. Colors will vary slightly from Standard colors due to conductive filler.

COMPOSITION

100% solids modified polyamine cured epoxy novolac resin and fillers.

COVERAGE

KEY #630 CONDUCTIVE NOVOLAC EPOXY will yield approximately 32 mils when spread at 50 ft² per gallon. Coverage varies by type of system.

CURE/DRY TIME

Working Life	20-25 min. @ 75°F
Dry to Touch	6-7 hrs @ 75°F
Recoat	8-12 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 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 #630 CONDUCTIVE NOVOLAC EPOXY will vary with type of system and application method. 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 #630 CONDUCTIVE NOVOLAC EPOXY**, the installer should provide the owner with maintenance instructions. **KEY #630 CONDUCTIVE NOVOLAC EPOXY** 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

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%	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
Isopropyl Alcohol	R
Lactic Acid - 50%	R
Methyl Ethyl Ketone	L
Nitric Acid - 10%	R
Orange Juice	R
Peroxide - 35%	L
Phosphoric Acid - 85%	R
Skydrol	R
Sodium Hydroxide - 50%	R
Sulfuric Acid - 98%	R
Toluene	R
Urea	R
Vinegar	R
Xylene	R

R - Recommended for continuous splash/spill service
L - Limited recommendation (occasional spills, may cause slight stain or discoloration) *Bleach allowed to evaporate/concentrate repeatedly will cause stains

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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