



KEY RESIN COMPANY

KEY EPOXY BINDER #510

DESCRIPTION

KEY RESIN #510 is a multipurpose epoxy binder for **Key Mortar Systems** and **Key Quartz Systems**. This all purpose epoxy resin is characterized as an excellent general purpose material with good clarity and color retention. Its 100% solids formulation makes it essentially odorless for installation in occupied facilities.

KEY ADVANTAGES

- Good Clarity & Color Retention
- Low Odor During Application & Cure--Can be Applied in Occupied Buildings
- Low Viscosity--Good Trowelling & Wetting Properties
- Available in "Fast Cure" Systems
- Meets USDA requirements for food handling applications

KEY CONSIDERATIONS

- Substrate temperature must be a minimum of 50°F (Contact **Key Resin Company** for Low Temperature Cure).
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials.
- Pigmented version should not be used as a coating.

COMPOSITION

100% Solids Epoxy Resin with Aliphatic Amines

PHYSICAL PROPERTIES

Tensile Strength	(ASTM D-638)	8,500 psi
Adhesion to Concrete	(ACI Comm 403)	350 psi (100% concrete failure)
Hardness	(ASTM D-2240)	80 (Shore D)
Flexural Strength	(ASTM D-790)	8,000 psi
Compressive Strength	(ASTM D-695)	11,000 psi
Service Temperature		150°F (wet) 160°F (dry)
Water Absorption	(ASTM D-670-73)	0.10% maximum

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 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

Installation of **KEY RESIN #510** varies with your application needs. For complete installation instructions, contact your **Key Representative** or **Key Resin Company's Technical Service**.

CLEAN UP

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

COVERAGE

KEY RESIN #510, when applied at 160 ft², yields 10 mils.

COLOR SELECTION

KEY RESIN #510 is available in Clear and Key Standard Colors. Custom Colors are available subject to laboratory approval, minimum quantity, lead time for production, and increased cost.

TECHNICAL DATA

Viscosity @ 75°F, mixed	550-700 cps
Mixing Ratio	4 Parts A to 1 Part B by Volume
Solids Content	100%, by volume
Volatile Organic Content (VOC)	-0-
Gloss, 60°F	100-110
Weight per gallon	9.00-9.50 pounds per gallon, mixed

CURE/DRY TIME

Pot Life	30-40 minutes @ 75°F
Dry to Touch	10-14 hours @ 75°F
Re-Coat	14-16 hours @ 75°F
Light Traffic	16 hours @ 75°F
Full Cure & Maximum Resistance	5 days

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 RESIN #510**, the installer should provide the owner with maintenance instructions. If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly.

KEY RESIN #510 is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing is recommended for all surfaces having a non-skid texture. Waxing is optional. Long periods of heavy traffic may cause wear patterns necessitating a maintenance application of a finish coat.

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.

CHEMICAL RESISTANCE

REAGENT	RATING
Acetic Acid-5%	L
Acetone	L
Ammonia Hydroxide-38%	R
Beer	R
Bleach	L
Brake Fluid	L*
Citric Acid-30%	R
Citric Acid-40%	L
Crude Oil	R
Diesel Fuel	R
Ethylene Glycol	R
Fatty Acids	L
Gasoline	L
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 service.
L-Limited Recommendation, occasional spills.
*-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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