

# KEY #510-LV/UV EPOXY

## Product Information Sheet



## DESCRIPTION

**KEY #510-LV/UV** is a multi-purpose, low viscosity epoxy resin with greater UV light resistance for use with **Key Quartz Systems, Key Chip Systems, Key Luster Metallic**, and as a concrete sealer. This epoxy resin is ideal for grouting chips (flakes) due to the improved ability to flow under and around chips with extended wet time to allow air displacement. These features also result in improved absorption into the aggregate layer of colored quartz systems. It is essentially odorless and can therefore be used in occupied areas.

## KEY ADVANTAGES

- Low viscosity - good wetting properties and absorption
- Excellent UV light resistance
- Very low odor for use in occupied areas
- Meets USGBC LEED requirements for low VOC
- Grout coat for colored quartz and chip (flake) flooring systems
- General purpose sealer for numerous other applications
- Optional pigmented version available; factory tinted or color packs
- Meets USDA requirements for use in food handling applications

## KEY CONSIDERATIONS

- Minimum application temperature of 50°F (Contact Key Resin for Low Temperature Cure formulation)
- Substrate must be free of curing agents and any foreign materials
- Requires additional cure time versus standard viscosity Key #510
- Pigmented version may not be suitable for use as a “high hiding” coating, confirm with samples

## COLOR SELECTION

**KEY #510-LV/UV** is available in **Clear** and **Key Standard Colors**.

## COMPOSITION

100% Solids Amine Cured Epoxy Resin

## CURE/DRY TIME

Working Life	30-40 min. @ 75°F
Recoat	14-18 hrs
Light Foot Traffic	24 hrs
Ultimate Cure	5 days @ 75°F 14 days @ 50°F

## 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 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

Installation of **KEY #510-LV/UV** varies with your application needs. 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.

## MAINTENANCE

After completing the application of **KEY #510-LV/UV**, 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 #510-LV/UV** 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.

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### TECHNICAL DATA

Mixing Ratio	3 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
Gloss, 60°	85-100
Weight/gal	9.00-9.50 lbs/gal, Mixed
Viscosity @ 75°F	125 cps mixed approximate

### 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 Representatives** are available to assist you. Telephone 888.943.4532 or visit [www.keyresin.com](http://www.keyresin.com).

### PHYSICAL PROPERTIES

Abrasion Resistance	ASTM D4060 (CS-17 wheel, 1 kg load, 1000 cycles)	60-65 mg loss
Adhesion to Concrete	ASTM D7234	300+ psi (Concrete Failure, varies by concrete strength)
Hardness, Shore D	ASTM D2240	80
Flexural Strength	ASTM D790	8,000 psi
Compressive Strength	ASTM D695	11,000 psi
Elevated Temperature Resistance Temperature	MIL-D-3134J	No slip or flow at required temperatures at 158°F
Tensile Strength	ASTM D638	8,500 psi
Water Absorption	ASTM D670-63	0.10% maximum

### 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 - 5%	L
Acetone	L
Bleach	L
Citric Acid - 30%	R
Crude Oil	R
Diesel Fuel	R
Ethylene Glycol	R
Fatty Acids	L
Gasoline	R
Hydrochloric Acid - 15%	R
Lactic Acid - 15%	R
Methyl Ethyl Ketone	L
Nitric Acid - 10%	R
Skydrol	R
Sodium Hydroxide - 50%	R
Sulfuric Acid - 20%	R
Toluene	R
Urea	R
Vinegar	L
Xylene	R

R - Recommended for continuous splash/spill service  
L - Limited recommendation (occasional spills)