

KEY #589 RESILIENT EPOXY BINDER

Product Information Sheet



DESCRIPTION

KEY #589 RESILIENT EPOXY BINDER is a 100% solids (zero VOC) semi-flexible epoxy designed as a binder for **KEY LASTIC CHIP 100** resilient flooring system and various other **KEY LASTIC SYSTEMS**. The resilient epoxy polymer material is designed to provide acoustical quietness and comfort under foot, absorbs minor movement and aids in reducing sound.

KEY ADVANTAGES

- Resilient - softer walking surface
- Low odor for use in occupied areas
- Meets USGBC LEED criteria for low VOC
- Reduces noises created by mechanical vibrations
- Ultimate elongation of 70-100%

KEY CONSIDERATIONS

- Slab on grade must have an efficient vapor/moisture barrier
- Substrate must be free of dirt, waxes, curing agents and other foreign materials
- Substrate temperature must be a minimum of 50°F
- Do not apply to wet or damp surfaces

COMPOSITION

100% solids flexible epoxy resin and amines.

COLOR SELECTION

Available in colors coordinated with type of flooring system specified.

COVERAGE

KEY #589 will vary with type of flooring system specified.

CURE/DRY TIME

Working Life	40 minutes
Recoat	18-20 hrs @ 75°F
Full Set Time	48-72 hrs @ 75°F
Full Cure & Max. Resistance	5-10 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.

MIXING INSTRUCTIONS

Mix 4 parts Part A with 1 part Part B by volume with a slow speed drill until liquids are completely blended. Combine mixed material with designated filler and spread with a cam rake. Spread as required for the specified **KEY LASTIC SYSTEM**. 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	4 Parts A to 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
Viscosity, mixed	4,800 cps

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.

MAINTENANCE

After completing the application of **KEY #589**, the installer should provide the owner with maintenance instructions. **KEY #589** is easily cleaned with neutral soaps or detergents. Refer to **Key Resin Technical Bulletin #3** and **#3A** for additional recommendations.

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 D7234	300-400+ psi (Concrete Failure, varies by concrete strength)
Flammability	ASTM D635	Self Extinguishing
Hardness, Shore A	ASTM D2240	70-80
Impact Resistance	ASTM D2794	16 ft./lbs.
Ultimate Elongation	ASTM D412	70-100%
Tensile Strength	ASTM D412	1,000 psi

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.