



KEY #537 EMULSION EPOXY COATING

DESCRIPTION

KEY RESIN #537 Emulsion Epoxy Coating is a unique, high solids water based pigmented epoxy designed to be an economical resin coating system for concrete floors and walls. **KEY #537** can also be used as a grout or top coat for other Key Resin floor systems. **KEY #537** is diluted with 5-10% water (approximately 8 ounces/mixed gallon).

KEY ADVANTAGES

- Excellent Adhesion to Concrete and Wood
- Low Odor, Suitable for Use in Occupied Facilities
- Meets USGBC LEED Low VOC Requirement
- Fast Dry and Recoat
- Good Chemical Resistance and Wear Resistance

KEY CONSIDERATIONS

- Substrate must be over 55°F and relative humidity below 85% for proper curing.
- Substrate must be structurally sound, dry and free of contaminants.
- Do not exceed application rate of more than 16 mils (100 ft²/gal.)
- Cure times will be extended in conditions of high humidity and poor ventilaton.

TYPICAL USES

KEY #537 is ideal for any resin floor or wall coating project needing an economical, durable, solid color sealer with a requirement for USGBC LEED certification. Typical uses include corridors, warehouse floors, light duty manufacturing areas, and numerous other areas.



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 Technical Services Department** is pleased to answer any questions.

INSTALLATION

- Pre-mix **KEY #537** Part A & Part B using a low speed drill and Jiffy mixer. Use caution not to entrain air into the material.
- Add 1 part **KEY #537** Part A to 2 parts **KEY #537** Part B by Volume. Mix with low speed drill until uniform (1.5-2 minutes). Material must be thoroughly blended following the mix ratio. Do not reduce with water until material is thoroughly blended, then add 8 ounces water per gallon and continue mixing for additional 1 minute.
- Apply **KEY #537** using a flat or notched squeegee and backroll with a high quality 3/16" nap roller. Coverage is 100-200 ft²/gallon to achieve 4-8 mils dry film thickness. Two coats are recommended to insure uniform wetting and coverage when used as a stand alone coating. Cross hatch backrolling is recommended for uniformity.
- Do not reduce with water for vertical applications.
- Allow to cure 18-24 hours minimum at 75 degrees F. before opening to light traffic.

CLEAN-UP

Clean skin with soap and water. Tools and equipment should be cleaned with warm soapy water, xylene or lacquer thinner. Consult Material Safety Data Sheet for safety and health precautions.

COMPOSITION

Waterborne Epoxy Resin and Colored Pigment

COVERAGE

KEY RESIN #537, when reduced 5% and applied at 100 ft²/gallon, yields 8.3 mils dry film thickness.

TECHNICAL DATA

Viscosity @ 75°F	600-1000 CPS
Mixing Ratio	1 Part A to 2 Parts B by Volume
Solids Content, by volume	57.4% before reducing
Volatile Organic Content (VOC)	<50 gm/L
Bond Strength to Concrete	400-500 psi (100% concrete failure)
Pot Life	25-35 minutes
Dry to Touch	6 hours @ 75°F
Recoat (100% solids, water-based topcoat)	8-24 hours @ 75°F
Recoat (solvent based topcoat)	24-36 hours @ 75°F
Light Traffic	24 hours @ 75°F
"H" Hardness	2 days
"5-H" Hardness	30 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 #537**, the installer should provide the owner with maintenance instructions. If floors become slippery due to animal fats, oil, grease, or soap film, remove promptly and rinse thoroughly. Refer to Key Resin Technical Bulletins #3 and #3-A for additional details.

KEY RESIN #537 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. Telephone **(888) 943-4532** or visit **www.keyresin.com**.

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.**