

KEY #537 EMULSION EPOXY COATING

Product Information Sheet



DESCRIPTION

KEY #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 topcoat for other **Key Resin Floor Systems**. **KEY #537** is diluted with 5-10% water (approximately 8-12 ounces/mixed gallon).

KEY ADVANTAGES

- Excellent adhesion to concrete
- 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 50°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 10 mils (160 ft²/gal.)
- Cure times will be extended in conditions of high humidity and poor ventilation

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.

COMPOSITION

Water-borne epoxy resin and pigment.

COVERAGE

KEY #537, when reduced 5% and applied at 160 ft²/gallon, yields 5.2 mils dry film thickness.

CURE/DRY TIME

Working 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 Foot Traffic	24 hrs @ 75°F
Full Cure & Max. Resistance	5-10 Days

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.

MIXING and INSTALLATION INSTRUCTIONS

- Premix **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 8-12 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 short/medium nap roller. Coverage is 160-250 ft²/gallon to achieve 3.3-5.2 mils dry film thickness. Two coats are recommended to ensure 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°F before opening to light foot traffic

CLEAN UP

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

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TECHNICAL DATA

Mixing Ratio	1 Part A: 2 Parts B by Volume
Solids Content	57.4% Before Reducing
Volatile Organic Content (VOC) (EPA Method 24)	50 g/L, compliant to low VOC Rule 1113 in all 50 states
Viscosity @ 75°F	600-1,000 cps

CHEMICAL RESISTANCE

Contact **Key Resin Technical Service**.

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 #537**, the installer should provide the owner with maintenance instructions. **KEY #537** is easily cleaned with neutral soaps or detergents. Refer to **Key Resin Technical Bulletin #3** and **#3A** for additional recommendations.

PHYSICAL PROPERTIES

Adhesion to Concrete	ASTM D7234	300-400+ psi (Concrete Failure, varies by concrete strength)
Hardness	ASTM D2240	"H" - 2 days "5-H" - 30 days

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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