

# KEY #535 WATER BASED EPOXY COATING

Product Data Sheet



## DESCRIPTION

**KEY #535 WATER BASED SATIN EPOXY COATING** is a pigmented, self-priming water-based pigmented epoxy with a satin finish, designed as a thin-film coating system to have maximum penetration into concrete surfaces to provide high bond strength. **KEY #535** is intended for a variety of general purpose service conditions such as warehouse floors and industrial floors, with good chemical and abrasion resistance, it is specially formulated to reduce concrete outgassing, and has a very low odor for use in occupied areas. **KEY #535** may also be used as a satin finish sealer over various Key Resin Systems.

## KEY ADVANTAGES

- Excellent adhesion to concrete, no primer required
- Low odor, suitable for use in occupied facilities
- Greatly reduces concrete outgassing
- Fast dry and recoat time, easy application
- 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
- Apply two coats when used as a stand alone coating system or apply one coat over Key Epocoat
- Cure times will be extended in conditions of high humidity and poor ventilation

## TYPICAL USES

**KEY #535** is ideal for any resin floor or wall coating project needing an economical, durable, solid color satin finish sealer with low odor. Typical uses include corridors, warehouse floors, light duty manufacturing areas, and numerous other areas.

## COMPOSITION

Water-borne epoxy resin and pigment.

## COVERAGE

**KEY #535** applied at 275-325 ft<sup>2</sup>/gallon yields 2.0-2.3 mils dry film thickness.

## CURE/DRY TIME

Working Time on Floor	25-35 minutes @ 75°F, 50% RH
Pot Life	2-3 hours @ 75°F, 50% RH
Dry to Touch	4 hours @ 75°F, 50% RH
Recoat (water based topcoat)	4-24 hours @ 75°F, 50% RH
Recoat (100% solids topcoat)	6-24 hours @ 75°F, 50% RH
Light Foot Traffic	24 hours @ 75°F, 50% RH
Wheeled Traffic	48 hours @ 75°F, 50% RH
Full Cure & Max. Resistance	7 days @ 75°F, 50% RH

## 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

- Important: Premix **KEY #535** Part A & Part B using a low-medium speed drill and Jiffy mixer. Use caution not to entrain air into the material.
- Add 1 part **KEY #535** Part A to 4 parts **KEY #535** Part B by Volume. Optional to thin 5%-8% with water in cooler temperatures. Mix with low-medium speed drill until uniform (2-3 minutes) and allow to stand 10-15 minutes before applying.
- Apply **KEY #535** using dip-and-roll method with a high quality 3/8" nap roller. Coverage is 275-325 ft<sup>2</sup>/gallon to achieve 2.0-2.3 mils dry film thickness. Two coats are recommended to ensure uniform wetting and coverage when used as a stand alone coating system. Cross hatch backrolling is recommended for uniformity.
- Avoid puddles—first coat should absorb into the concrete.
- Allow to cure 24 hours minimum at 75°F, 50% RH 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: 4 Parts B by Volume
Solids Content	40% Solids by Volume
Volatile Organic Content (VOC) (EPA Method 24)	<50 g/L, compliant to low VOC Rule 1113 in all 50 states
Viscosity @ 75°F	300-400 cps

## CHEMICAL RESISTANCE

Contact **Key Resin Technical Service**.

## COLORS AVAILABLE

Contact **Key Resin** for color selection.

## PHYSICAL PROPERTIES

Adhesion to Concrete	ASTM D7234	300-400+ psi (Concrete Failure, varies by concrete strength)
Pencil Hardness	ASTM D3363	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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## AVAILABILITY

**KEY #535 is manufactured in the Phoenix facility only and shipped FOB Phoenix, AZ.** 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](http://www.keyresin.com).

## MAINTENANCE

After completing the application of **KEY #535**, the installer should provide the owner with maintenance instructions. **KEY #535** is easily cleaned with neutral soaps or detergents. Refer to **Key Resin Technical Bulletin #3** and **#3A** for additional recommendations.