# **KEY #515 EPOXY**

#### **Product Information Sheet**



# DESCRIPTION

**KEY #515** is a general purpose epoxy suitable for use as a body coat/binder or top coat. Designed for a wide variety of applications, **KEY #515** provides an ideal, economical resin for various **Key Resin Systems. KEY #515** provides increased barrier thickness and gives added protection to concrete against chemical and abrasive attack. Consult with **Key Resin Technical Service** for recommended use.

#### **KEY ADVANTAGES**

- Economical
- · Denser and harder than concrete
- Meets USGBC LEED criteria for low VOC
- · Low odor for use in occupied areas
- · Low viscosity good wetting properties
- · Meets USDA requirements for incidental food contact

# **KEY CONSIDERATIONS**

- Minimum application temperature of 50°F (Contact Key Resin for Low Temperature Cure)
- Substrate must be free of curing agents and any foreign materials
- · Concrete must be properly prepared
- Neutral tint base requires addition of pigment pack for all uses to achieve proper cure

### COLOR SELECTION

**KEY #515** is available in **Key Resin Standard Colors** and custom colors with lab approval, longer lead time and possible added cost. Neutral requires addition of **Key Epoxy Color Pack**.

## COMPOSITION

100% solids Amine Cured Epoxy Resin.

# **CURE/DRY TIME**

Working Life	45 minutes @ 70°F
10-20 mil Film	10-14 hrs
Light Traffic	16 hrs
Ultimate Cure @ 74°F	5 days
Ultimate Cure @ 50°F	14 days

# CHEMICAL RESISTANCE

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R - Recommended for continuous splash/spill service

# **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.

#### **INSTALLATION**

Will vary with system and application method.

#### **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.

L - Limited recommendation (occasional spills, may cause slight stain or discoloration)

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Mix Ratio	4 Parts A:1 Part B by Volume
Solids Content	100%
Volatile Organic Content (VC (EPA Method 24)	OC) 0 g/L, compliant to low VOC Rule 1113 in all 50 states
Weight/gal	10.5-11 lbs. mixed
Viscosity	1,500 cps, mixed approx.



# **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.

# PHYSICAL PROPERTIES

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Tensile Strength	ASTM C307	2,300 psi
Smoke Deposited	ASTM E162	4 mg maximum
Shrinkage	ASTM C531	<0.5%
Flame Spread	ASTM E-162	25 maximum
Thermal Coefficient of Expansion	ASTM C531	17.4 x 10 <sup>-6</sup> in./in./°F
Adhesion to Concrete	ASTM D7234	300+ psi (Concrete Failure, varies by concrete strength)
Hardness, Shore D	ASTM D2240	75
Abrasion Resistance	ASTM D4060 CS-17 Wheel, 1000 cycles	65 mg loss
Impact Resistance	MIL-D-3134J	Withstands 16ft./lbs. no cracking, delamination or chipping
Elevated Temperature Resistance	MIL-D-3134J	No slip or flow at required temperatures
Moisture Absorption	ASTM D570	<1%
Flexural Strength	ASTM C580	5,000 psi
Compressive Strength	ASTM C579, 25 Day Cure	12,000 psi
Indentation	MIL-D-3134J	Withstands 2,000 lbs./sq.in. for 30 min. without indentation
Heat Deflection Temperature	ASTM D648	110°F

#### 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 in 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.