

KEY #110 CLEAR CASTING EPOXY

Product Data Sheet



DESCRIPTION

KEY #110 is a 100% solids epoxy resin designed for making clear castings, embedding objects, coating table tops and similar applications. **KEY #110** is an excellent general purpose material with good clarity and color retention. It is essentially odorless and can therefore be used in occupied areas.

KEY ADVANTAGES

- Excellent color retention
- Low odor for use in occupied areas
- Meets USGBC LEED criteria for low VOC
- Low viscosity - good wetting properties
- Meets USDA requirements

KEY CONSIDERATIONS

- Substrate temperature must be a minimum of 50°F
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials
- Do not apply over wet or damp surfaces
- May require a urethane sealer for certain applications

COLOR SELECTION

KEY #110 is available in Clear only.

CURE/DRY TIME

Working Life	30-40 mins @ 75°F
Initial Cure	10 hrs @ 75°F
Recoat	16 hrs @ 75°F
Full Cure & Max. Resistance	5 Days @ 75°F

PHYSICAL PROPERTIES

Adhesion to Concrete	ASTM D7240	300-400+ psi (Concrete Failure)
Adhesion to Metal	ASTM D4541	2,500 psi
Compressive Strength	ASTM D695	11,000 psi
Flexural Strength	ASTM D790	8,000 psi
Hardness, Shore D	ASTM D2240	75
Indentation	MIL-D-3134J	Withstands 2,000 lbs./sq.in. for 30 min. with slight indentation
Service Temperature	MIL-D-3134J	125°F (immersion) 160°F (dry heat)
Tensile Strength	ASTM D638	8,500 psi
Water Absorption	ASTM D670-73 (24 hr. immersion)	.10% maximum

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.

INSTALLATION

Installation of **KEY #110** varies with the application. 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.

COMPOSITION

100% solids amine cured epoxy resin.

COVERAGE

KEY #110 will vary with application method.

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TECHNICAL DATA

Mixing Ratio, by volume	2 Parts A to 1 Part B
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
Gloss, 60°	85-100
Weight/gal	9.00-9.5 lbs/gal, Mixed
Viscosity @ 75°F	950 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.

MAINTENANCE

After completing the application of **KEY #110**, the installer should provide the owner with maintenance instructions. **KEY #110** 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 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.

CHEMICAL RESISTANCE

REAGENT	RATING
Acetic Acid-5%	L
Acetone	L
Bleach	L
Citric Acid-30%	R
Crude Oil	R
Diesel Fuel	R
Ethylene Glycol	R
Fatty Acids	L
Gasoline	R
Hydrochloric Acid-15%	R
Lactic Acid-15%	L
Methyl Ethyl Ketone	L
Nitric Acid-10%	L
Skydrol	R
Sodium Hydroxide-50%	R
Sulfuric Acid-20%	R
Toluene	R
Urea	R
Vinegar	L
Xylene	L

R - Recommended for continuous splash/spill service

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

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CORPORATE OFFICE / EASTERN US / INTERNATIONAL

4050 Clough Woods Drive . Batavia, OH 45103
513.943.4225 888.943.4532 www.keyresin.com

WESTERN US

4330 N. 43rd Avenue, Suite B4, Phoenix, AZ 85031
602.523.9353