

KEY #100 DECOUPAGE RESIN

Product Information Sheet



DESCRIPTION

KEY #100 is a 100% solids epoxy which cures to a clear, high gloss finish having good clarity and color retention. **KEY #100** resists scratching and is ideally suited for coating table tops, bar tops and similar decoupage applications.

KEY ADVANTAGES

- Excellent color retention
- Low odor for use in occupied areas
- Meets USGBC LEED criteria for low VOC
- Meets USDA requirements
- Resists scratching

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 #100 is available in Clear.

COMPOSITION

100% solids amine cured epoxy resin.

COVERAGE

KEY #100 will vary with application method.

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

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. **Key Resin Company Technical Service** is available to answer any questions.

INSTALLATION

Installation of **KEY #100** 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.

MAINTENANCE

After completing the application of **KEY #100**, the installer should provide the owner with maintenance instructions. **KEY #100** is easily cleaned with neutral soaps or detergents. Refer to **Key Resin Technical Bulletin #3** and **#3A** for additional recommendations.

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TECHNICAL DATA

Viscosity @ 75°F	950 cps, mixed approx.
Mixing Ratio, by volume	1 part 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	8.80 lbs/gal, Mixed

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

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.

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	75-80
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 D-638	8,500 psi
Water Absorption	ASTM D-670-73 (24 hr. immersion)	.10% maximum

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)