

KEY VINYL ESTER PRIMER

Product Information Sheet

DESCRIPTION

KEY VINYL ESTER PRIMER is used with all **Key Vinyl Ester Systems** to promote adhesion to concrete substrates. **KEY VINYL ESTER PRIMER** penetrates and reduces porosity in the concrete prior to application of the **Key Vinyl Ester System**, reducing absorption of the System's liquids and makes the overall application of the System easier.

KEY ADVANTAGES

- Excellent adhesion to concrete substrates
- Compatible with all **Key Vinyl Ester Systems**
- Promotes adhesion of the vinyl ester system to concrete
- Meets USGBC LEED criteria for low VOC (<50 g/L)

KEY CONSIDERATIONS

- Substrate temperature must be a minimum of 65°F and maximum of 85°F, for colder temp contact Key Resin
- Substrate must be free of excess moisture transmission, paint, curing agents, and other foreign materials which can prevent proper bond
- Substrate irregularities may transmit through finish depending on system thickness
- Vinyl ester resin has a characteristic styrene odor during application and cure, use proper ventilation

COLOR SELECTION

KEY VINYL ESTER PRIMER is available in Amber Clear. The addition of graphite filler (when specified) yields a dark charcoal gray.

COVERAGE

KEY VINYL ESTER PRIMER is typically applied on concrete at 160 ft² per gallon yielding 10 mils WFT (approximately 8-9 mils DFT).

CURE/DRY TIME

Pot Life*	45 min @ 75°F, 50% RH
Recoat* (Min-Max) (Must be tack-free)	3-24 hrs @ 75°F, 50% RH
Light Foot Traffic*	24 hrs @ 75°F, 50% RH
Full Cure*	48 hrs @ 75°F, 50% RH

*Cure time varies with temperature, air movement, humidity and thickness

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

KEY VINYL ESTER PRIMER is installed over a concrete surface. For complete mixing and installation instructions, consult the installation instructions document for the specified system and contact **Key Resin Technical Service**.

CLEAN UP

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

COMPOSITION

Vinyl ester resin with styrene.

CHEMICAL RESISTANCE

Refer to the specified **Key Vinyl Ester System**, contact **Key Resin Technical Service** for any chemicals not listed.

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TECHNICAL DATA

Mixing Ratio (1.9 gallon unit)	13 oz Part A Catalyst to 1.8 gal Part B Resin
Solids Content	96%, by volume
Volatile Organic Content (VOC) (EPA Method 24)	<50 g/L, compliant to low VOC Rule 1113 in all 50 states
Flash Point (Setaflash)	Part A Catalyst: 199°F Part B Resin: 73°F
Shelf Life	Part A Catalyst: 12 months @ 75°F Part B Resin: 2-3 months @ 75°F

AVAILABILITY

KEY VINYL ESTER PRIMER is made to order only and can not be returned for credit for any reason. Contact the **Key Resin Representative** in your area for details.

PHYSICAL PROPERTIES

Adhesion to Concrete	ASTM D7240	300-400+ psi (Concrete Failure, varies by concrete strength)
Impact Resistance	Gardner Impact Tester	>120 in/lbs
Flammability	ASTM D635	Self-Extinguishing over Concrete
Tensile Strength	ASTM D638	Neat Resin: 5,000 psi
Thermal Coefficient of Expansion	ASTM C531	6-10 x 10 ⁻⁸
Water Absorption	ASTM D570	.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.

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

KEY VINYL ESTER PRIMER is used as a primer underneath other **Key Vinyl Ester System** materials. Refer to the appropriate system technical data sheet for maintenance instructions, or **Key Resin Technical Bulletin #3** and **#3-A**.