

# KEY VINYL ESTER PRIMER

## Product Information Sheet



## DESCRIPTION

**KEY VINYL ESTER PRIMER** is a high elongation vinyl ester resin primer used with all **Key Vinyl Ester Systems**. Its high elongation properties mitigates stress between the vinyl ester bodycoat/topcoat and the substrate.

## KEY ADVANTAGES

- Excellent adhesion to concrete and steel substrates
- Compatible with all **Key Vinyl Ester Systems**
- High elongation mitigates stress between the vinyl ester bodycoat/topcoat and the substrate

## KEY CONSIDERATIONS

- Substrate temperature must be a minimum of 50°F
- 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 160-200 ft<sup>2</sup> per gallon yielding approximately 8-10 mils wft (5-7 mils dft).

## CURE/DRY TIME

Working Life*	12-15 min @ 75°F, 50% RH
Recoat* (Min-Max) (Must be tack-free)	5-72 hrs @ 75°F, 50% RH
Light Traffic*	24 hrs @ 75°F, 50% RH
Full Cure & Max. Resistance*	3 days @ 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 or steel 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 or lacquer thinner. 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 gallon Part A to 2-4 oz Part B catalyst
Solids Content	85%, by volume
Volatile Organic Content (VOC) (EPA Method 24)	205 g/L, compliant to high temp coating VOC Rule 1113
Flash Point	80°F
Shelf Life	2-3 months @ 75°F

### 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.

### 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	8,750 psi
Thermal Coefficient of Expansion	ASTM C531	6-10 x 10 <sup>-8</sup>
Water Absorption	ASTM D570	.15% maximum
Tensile Elongation	ASTM D638	8%
Fungus & Bacterial Growth	MIL-F-52050 §4.4.2.11	Will not support growth of fungus or bacteria when subjected to mildew and bacteria test

### 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.

