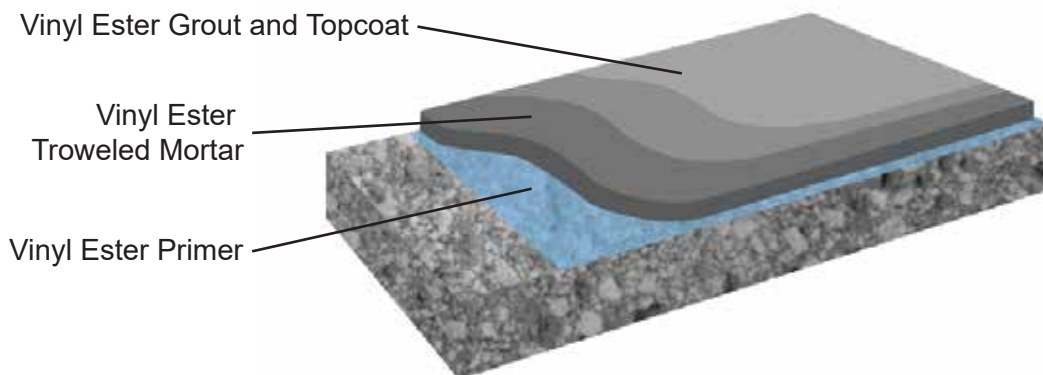


KEY VINYL ESTER STD FLOORING

Technical Data Sheet



DESCRIPTION

KEY VINYL ESTER STD is a high performance, trowel applied resin flooring system consisting of vinyl ester resin and graded aggregates that provides heavy-duty, acid and corrosion resistant protection at 3/16" to 1/4" or thicker as needed. Ideal for heavy-duty, high traffic areas, **KEY VINYL ESTER STD** is sealed to meet your facility's needs. **KEY VINYL ESTER STD** can be installed with an integral cove base for areas requiring seamless wall to floor coatings. Added structural integrity and crack resistance is achieved by using fiberglass reinforcement. Carbon (graphite) filled vinyl ester resin and/or carbon aggregate is available for exposures to hydrofluoric or hydrofluorosilicic acid and for applications requiring a conductive system. Contact your **Key Representative** for assistance.

KEY ADVANTAGES

- Excellent acid, solvent & broad spectrum corrosion resistance
- High wear and impact resistance
- Low maintenance
- Slip resistant finishes available.

TYPICAL USES

- Plating and metal finishing plants
- Pulp, petroleum, and chemical processing facilities
- Power and water treatment plants
- Secondary containment areas
- Numerous other uses—consult with **Key Resin**

PHYSICAL PROPERTIES

Test Name	Method	Value
Color		Key Standard Gray, Red, Charcoal (carbon filled)
VOC (Volatile Organic Content)	EPA Method 24	Refer to Individual Product Component Data Sheet
Bond Strength to Concrete	ASTM D4541	300-400+ psi Concrete Failure
Compressive Strength	ASTM C579	10,700 psi
Flexural Strength	ASTM C580	7,800 psi
Hardness, Shore D	ASTM D2240	85
Tensile Strength (Binder resin only)	ASTM D638	2,500 psi
Flammability	ASTM D635	Self Extinguishing
Abrasion Resistance	ASTM D4060, CS17 Wheel, 1000 cycles	50 mg
Impact Resistance	MIL-D-3134J	Withstands 16 ft-lbs without cracking, delamination or chipping
Resistance to Elevated Temperatures	MIL-D-3134J	No slip or flow at required temperature of 158°F

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APPLICATION

SURFACE PREPARATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared and tested for moisture as outlined in **Key Resin Technical Bulletin #1**. If moisture testing confirms excessive levels of moisture, apply moisture mitigation system recommended by **Key Resin**. Work must be performed by experienced contractors. The **Key Resin Technical Service Department** is available to answer any questions.

INSTALLATION

KEY VINYL ESTER STD material components are mixed on site. Refer to the detailed installation instructions document and **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 VINYL ESTER STD**, the installer should provide the owner with maintenance instructions. **KEY VINYL ESTER STD** is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing using the appropriate pad is recommended for all surfaces having a slip resistant texture. Refer to **Key Resin Technical Bulletins #3** and **#3-A** for additional recommendations. Note: Office chairs should use a floor mat for additional protection of the floor finish.

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.

SYSTEM OPTIONS

- Conductive formulation (contains graphite filler)
- Fiberglass reinforcement
- Carbon (graphite) filler and/or aggregates are available for exposures to hydrofluoric/hydrofluorosilicic acid or when a non-sparking topping is required
- Novolac or bis-A vinyl ester formulations are available as required for specific chemical resistance performance

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. Telephone **888.943.4532** or visit **www.keyresin.com**.

AVAILABILITY

Key Resin flooring systems are available throughout the United States and a number of other countries. Contact the **Key Resin Representative** in your area for details.



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