



# KEYGLAS-VINYL ESTER

## DESCRIPTION

**KEYGLAS-VINYL ESTER** is a fiberglass cloth or fiberglass flake reinforced vinyl ester-novolac coating system designed to provide a seamless wall-to-ceiling-to-floor surface that is easy to clean and maintain. Combining high impact and excellent acid and corrosion resistance, **KEYGLAS-VINYL ESTER** is the ideal secondary containment system for tank linings, exteriors of high temperature equipment, trenches, pits, and sumps. Depending on weight of fiberglass used, installed thickness of **KEYGLAS-VINYL ESTER** ranges from 35 to 90 mils. **KEYGLAS-VINYL ESTER** can be incorporated into seamless floor cove base applications.

## KEY ADVANTAGES

- Excellent Acid & Corrosion Resistance
- High Heat & Impact Resistance
- Seamless Surface Inhibits Bacteria Growth
- Easily Maintained

## KEY CONSIDERATIONS

- Substrate temperature must be a minimum of 50°F.
- Substrate must be free of hydrostatic pressure, moisture transmission, paint, curing agents, and other foreign materials which can prevent proper bond.
- Substrate irregularities will transmit through coating system.
- Vinyl Ester resin has a characteristic styrene odor during application and cure. **KEYGLAS-VINYL ESTER** should be applied in areas with proper ventilation.

## 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 COMPANY'S TECHNICAL BULLETIN #1**. Work must be performed by trained or experienced contractors or maintenance personnel. The **KEY RESIN COMPANY** service department is pleased to answer any questions.

### INSTALLATION

**KEYGLAS-VINYL ESTER** is installed over a smooth wall surface. Fiberglass cloth is imbedded into a base coat of *Key Vinyl Ester Coating*. Successive applications of specified finish coats are rolled over it to ensure a smooth surface and complete coverage of reinforcing fiberglass. For complete instructions, consult **KEYGLAS-VINYL ESTER** installation guide or your **KEY REPRESENTATIVE**.

### CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with xylene or lacquer thinner.

## COMPOSITION

**KEYGLAS-VINYL ESTER** is a 100% solids vinyl ester-novolac wall coating system reinforced with 2.6-7.5 ounce fiberglass cloth or fiberglass flake. 5.8 ounce fiberglass cloth reinforcement is the standard.

## COLOR SELECTION

**KEYGLAS-VINYL ESTER** is available in Standard Grey or Red. Custom colors are available subject to laboratory approvals, minimum quantities, lead time for production, and increased cost. **KEY PERSONNEL** are ready to assist.

# TECHNICAL DATA

## Coating System Performance Properties

<b>Flammability</b> ASTM D-635	Self-Extinguishing over Concrete
<b>Fungus &amp; Bacteria Growth</b> MIL-F-52505 §4.4.2.11	Will not support growth of fungus or bacteria when subjected to mildew and bacteria tests.
<b>Hardness</b> ASTM D-2240	85 Shore D
<b>Bond Strength to Concrete</b> ACI COMM #403, Bulletin 59-43	300-350 psi (100% concrete failure)
<b>Water Absorption</b> ASTM D-570	0.10%
<b>Abrasion Resistance</b> ASTM C-501	30-40 mg
<b>Impact Resistance</b> Gardner Impact Tester	>120 in/lbs
<b>Tensile Strength</b> ASTM C-307	9,500 psi
<b>Thermal Coefficient of Expansion</b> ASTM C-531	6-10 x 10 <sup>-6</sup>

## TECHNICAL SERVICE

**Key Resin Company** and **KRC Associates, Inc.** provide services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **KEY REPRESENTATIVES** are available to assist you at any time. CALL (888)943-4532.

## AVAILABILITY

**Key Flooring Systems** are available throughout the United States, Canada, and a number of other countries. Contact the **KEY REPRESENTATIVE** in your area for details.

## MAINTENANCE

After completing the application of **KEYGLAS-VINYL ESTER**, the installer should provide the owner with maintenance instructions. If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly.

**KEYGLAS-VINYL ESTER** is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing is recommended for all surfaces having a non-skid texture. Waxing is optional. Long periods of heavy traffic may cause wear patterns necessitating a maintenance application of a finish coat.

**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.

