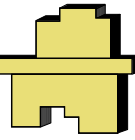


KEY RESIN COMPANY



KEY VINYL ESTER SL

DESCRIPTION

KEY VINYL ESTER SL is a high performance, 1/16" seamless, low maintenance, vinyl ester-novolac slurry system specially formulated for extreme chemical resistant applications. Ideal for light to medium traffic areas, **KEY VINYL ESTER SL** may be sealed to meet your facility's needs to enhance abrasion resistance and non-skid properties. **KEY VINYL ESTER SL** can be installed with an integral cove base for areas requiring seamless wall to floor coatings. Carbon aggregates are also available for exposures to hydrofluoric or hydrofluorosilicic acid and in cases requiring a conductive system. Consult your **KEY REPRESENTATIVE** for more assistance.

KEY ADVANTAGES

- Excellent Acid & Corrosion Resistance
- High Wear, Impact, and Abrasion Resistance
- Low Maintenance
- Safe (non-skid)

KEY CONSIDERATIONS

- On or below grade installation must have an efficient vapor barrier under the slab. Special treatments are necessary where hydrostatic pressure or moisture vapor transmission may be present.
- Substrate temperature must be a minimum of 55°F.
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials.
- All control joints and expansion joints in the substrate must be revealed with the appropriate divider strips in the topping.

TYPICAL USES

The **KEY VINYL ESTER SL** 1/16" system is used in light traffic areas that require extreme acid and corrosion resistance such as plating and metal finishing plants, pulp, petroleum, and chemical processing facilities, and power and water treatment plants.

SELECTION GUIDE

Activity Centers
Aircraft Hangars
Airports
Baggage/Service
Terminals
Animal Areas
Housing
Cage Washing
Beverage
Processing
Packaging/Warehousing
Bottling
Cafeterias
↔ Chemical Processing
Clean Rooms
Coolers
Computer Assembly
Commercial Kitchens
↑ Containment Areas
Convention Centers
Correctional Facilities
↔ Corridors
↔ Docks/Ramps
Dairies
Distilleries
Packaging
Bottling
Food
Processing
Preparation Service
Garages
Hospitals
Corridors & Lobbies
Patient Rooms
Operating Rooms
↔ Services
↑ Laboratories
Laundries
Locker Rooms
Machine Shops
↔ Manufacturing
Light Duty
Heavy Duty
↔ Meat, Fish, Poultry Processing
Mechanical Equipment Rooms
Munitions Facilities
Parking Garages
Interior Decks
Exterior Decks
Pharmaceutical Plants
↑ Pulp and Paper Processing Facilities
Schools
Shopping Malls
Showers
↔ Utilities
↔ Warehouses
↔ Waste Water Treatment Facilities

↑-Excellent Choice ↔-Alternate Choice

TECHNICAL DATA

System Performance Properties

Flammability ASTM D-635	Self Extinguishing
Fungus & Bacteria Growth MIL-F-52505 §4.4.2.11	Will not support growth of fungus or bacteria when subjected to mildew and bacteria tests.
Hardness ASTM D-2240	80-84 Shore D
Bond Strength to Concrete ACI COMM #403, Bulletin 59-43	350 psi (100% concrete failure)
Resistance to Elevated Temperature MIL-D-3134F §4.7.4	No slip or flow at required temperature of 158°F
Coefficient of Friction ASTM D-2047	0.80
Water Absorption ASTM D-570	0.1%
Thermal Shock Resistance ASTM C-884	Passes
Abrasion Resistance ASTM C-501	0.1 gm maximum weight loss
Impact Resistance MIL-D-3134F §4.7.3	Withstands 12 ft./lbs. without cracking, delamination, or chipping.
Compressive Strength ASTM C-579, 7 days	12,000 psi
Tensile Strength ASTM C-307	8,500 psi
Thermal Coefficient of Expansion ASTM C-531	14 x 10 ⁻⁶

Neat Resin

Performance Properties

Compressive Strength ASTM D-695	13,000 psi
Ultimate Tensile Strength ASTM D-638	4,200 psi
Tensile Elongation ASTM D-638	6-8%
Flexural Strength ASTM D-790	7,800 psi
Flexural Modulus ASTM D-790	2.5 x 10 ⁵
Hardness ASTM D-2240	65-85 Shore D

APPLICATION

Concrete surfaces must be in sound condition and properly prepared prior to any **KEY RESIN COMPANY** flooring system installation. Refer to **Key Resin Company Technical Bulletin #1** for specific preparation guidelines.

Installation of **KEY VINYL ESTER SL** involves several steps including priming, applying base coats, and sealing. For specific installation guidelines consult **Key Resin Company's Installation Instruction Manual**.

MAINTENANCE

After completing the application of **KEY VINYL ESTER SL**, 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.

KEY VINYL ESTER SL 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.

COMPOSITION

KEY VINYL ESTER SL is composed of 100% solids vinyl ester-novolac resin filled with a variety of graded quartz, silica, or ceramic fillers that can be modified to create the best design mix for ideal performance. Vinyl ester-novolac finish coats are used to meet exposure requirements.

COLOR & AVAILABILITY

KEY VINYL ESTER SL is available in either grey or red. Colors will not fade or wear thin.

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.

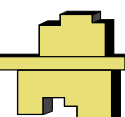
TECHNICAL SERVICE

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.



KEY RESIN COMPANY

4061 Clough Woods Drive
Batavia, Ohio 45103, 888.943.4532



Key Vinyl Ester SL-2