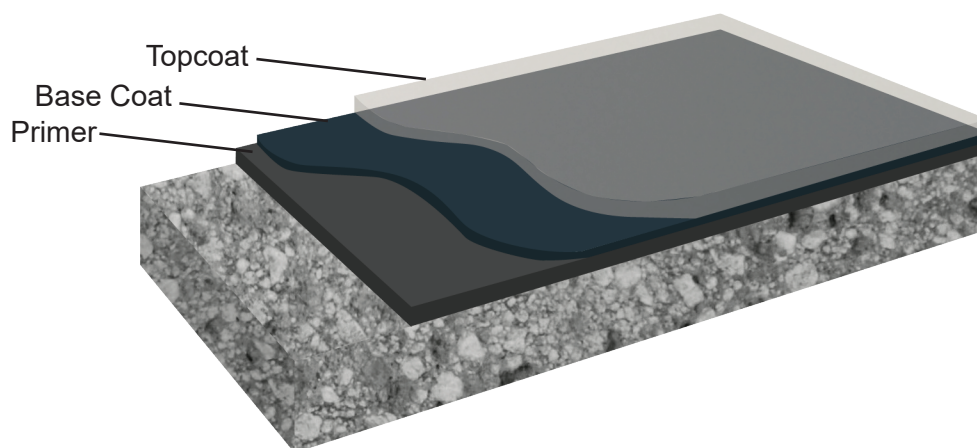


KEY VINYL ESTER BINDER/COATING

Technical Data Sheet



DESCRIPTION

KEY VINYL ESTER BINDER/COATING is a novolac vinyl ester resin used with all **KEY VINYL ESTER SYSTEMS**. Combining high acid and corrosion resistance with high temperature resistance, **KEY VINYL ESTER BINDER/COATING** is the ideal resin component for secondary containment lining systems, tank linings, exteriors of high temperature equipment, FGD stacks, trenches, pits, and sumps. The installed system thickness varies by system type and project specifications. **KEY VINYL ESTER BINDER/COATING** may optionally be available with fiberglass reinforcement, graphite filler or mineral flake filler as required.

KEY ADVANTAGES

- Excellent acid & corrosion resistance
- High heat & impact resistance
- Seamless surface inhibits bacteria growth
- Easily maintained

TYPICAL USES

- Secondary containment lining systems
- Tank linings
- Exteriors of high temperature equipment
- FGD stacks
- Trenches
- Pits
- Sumps
- Numerous other uses-Consult with Key Resin

PHYSICAL PROPERTIES

Test Name	Method	Value
Color		Key Standard Colors and Custom Colors
VOC (Volatile Organic Content)	EPA Method 24	Refer to Individual Product Component Data Sheet
Bond Strength to Concrete	ASTM D-4541	300 psi Concrete Failure
Water Absorption	ASTM D-570	0.10%
Hardness, Shore D	ASTM D-2240	85
Tensile Strength	ASTM D-412	9,500 psi
Flammability	ASTM D-635	Self Extinguishing
Abrasion Resistance	ASTM D-4060, CS17 Wheel, 1000 cycles	30-40 mg lost
Impact Resistance	Gardener Impact	>120 in-lbs
Thermal Coefficient of Expansion	ASTM C-531	6 - 10 X 10 ⁻⁸

KEY VINYL ESTER BINDER/COATING

Technical Data Sheet



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 and required moisture testing. For specific installation details consult Key Resin Company's Installation Instructions Guideline.

MAINTENANCE

After completing the application of **KEY VINYL ESTER BINDER/COATING**, 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 BINDER/COATING** is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing using the appropriate pad 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. Refer to Technical Bulletins #3 and #3-A for additional recommendations.

SYSTEM OPTIONS

- Fiberglass reinforcement
- Graphite reinforcement
- Mineral flake filler
- Varied thickness per service requirement

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

AVAILABILITY

Key Resin Flooring and Wall Systems are available throughout the United States, Canada, and a number of other countries. Contact the Key Resin Sales Representative in your area for details.

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.



Rev 4/1/2016 v1.0

CORPORATE OFFICE / EASTERN US / INTERNATIONAL

4050 Clough Woods Drive . Batavia, OH 45103
513.943.4225 888.943.4532 www.keyresin.com

WESTERN US

4330 N. 43rd Avenue, Suite B4, Phoenix, AZ 85031
602.523.9353