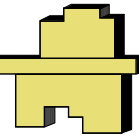


KEY RESIN COMPANY



# KEY RESISTANT STD

## DESCRIPTION

**KEY RESISTANT STD** provides the maximum chemical resistance in trowelled epoxy mortar systems. Combining a 100% solids, chemically resistant mortar base with chemical resistant epoxy or novolac epoxy sealers, **KEY RESISTANT STD** protects concrete and masonry where extreme chemical and thermal protection is required.

**KEY RESISTANT STD** can be installed with an integral cove base for areas requiring seamless wall to floor coatings. A waterproof crack-resistant system can be achieved by using a **KEY CRACK ISOLATION AND WATERPROOFING MEMBRANE**. Contact your **KEY REPRESENTATIVE** for assistance.

## KEY ADVANTAGES

- High Wear, Impact, & Abrasion Resistance
- Extreme Chemical & Thermal Shock Resistance
- Low Maintenance
- Safe (non-skid)
- 100% Solids Provides Low Odor Application
- Authorized for Use in Federally Inspected Meat and Poultry Plants

## 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 (Low temperature cure system available on request).
- 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.
- Chemical exposure, service temperatures, mechanical abuse, and housekeeping influence service life.

## SELECTION GUIDE

Activity Centers
Aircraft Hangars
Airports
Baggage/Service Terminals
↑ Animal Areas
↑ Housing
↔ Beverage
↔ Cage Washing
↑ 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

<b>Flammability</b> ASTM D-635	Self Extinguishing
<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	80-85 Shore D
<b>Bond Strength to Concrete</b> ACI COMM #403, Bulletin 59-43	300 psi (100% concrete failure)
<b>Resistance to Elevated Temperature</b> MIL-D-3134F §4.7.4	No slip or flow at required temperature of 158°F
<b>Coefficient of Friction</b> ASTM D-2047	0.80
<b>Water Absorption</b> ASTM D-570	Nil
<b>Thermal Shock Resistance</b> ASTM C-884	Passes
<b>Abrasion Resistance</b> ASTM C-501	0.1 g
<b>Impact Resistance</b> MIL-D-3134F §4.7.3	Withstands 16 ft./lbs. without cracking, delamination, or chipping.
<b>Compressive Strength</b> ASTM C-579, 7 days	14,000 psi
<b>Tensile Strength</b> ASTM C-307	5,500 psi
<b>Thermal Coefficient of Expansion</b> ASTM C-531	28 x 10 <sup>-6</sup>

## TYPICAL USES

**KEY RESISTANT STD** is used in heavy traffic and production areas such as manufacturing plants, loading areas, processing and preparation areas, machine shops, and laboratories.

## 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.

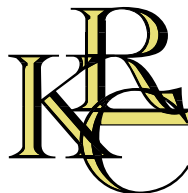
Installation of **KEY RESISTANT STD** involves several steps including priming, troweling base toppings, broadcasting quartz aggregates, grouting, and sealing. For specific installation guidelines consult **Key Resin Company's Installation Instruction Manual**.

## MAINTENANCE

After completing the application of **KEY RESISTANT STD**, 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 RESISTANT STD** 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.



KEY RESIN COMPANY

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## Neat Resin

## Performance Properties

<b>Compressive Strength</b> ASTM D-695	11,000 psi
<b>Ultimate Tensile Strength</b> ASTM D-638	7,400 psi
<b>Tensile Elongation</b> ASTM D-638	6-8%
<b>Flexural Strength</b> ASTM D-790	2,600 psi
<b>Flexural Modulus</b> ASTM D-790	2.5 x 10 <sup>5</sup>
<b>Hardness</b> ASTM D-2240	65-85 Shore D

## COMPOSITION

**KEY RESISTANT STD** uses 100% solids chemically resistant epoxy with graded aggregates. Chemically Resistant Epoxy and Novolac Epoxy finish coats provide specific performance characteristics as applicable.

## COLOR & AVAILABILITY

**KEY RESISTANT STD** is available in a variety of standard colors. Custom colors are available subject to laboratory approvals, minimum quantities, lead time for production and increased cost. 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.