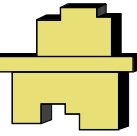


KEY RESIN COMPANY



KEY RESISTANT QUARTZ B-125

DESCRIPTION

KEY RESISTANT QUARTZ is a decorative resin flooring system consisting of clear, 100% solids, chemical resistant epoxy resin and colored quartz aggregate. Specially formulated for high chemical resistance applications, **KEY RESISTANT QUARTZ** is finished with clear catalyst-cured coats of high-performance epoxy or epoxy novolac resins available in a satin or gloss finish. The installed system can be textured or smooth as desired. Easy maintenance minimizes bacterial growth. The decorative quartz aggregates are available in a series of pre-blended patterns or solid colors. Crack-free installations of **KEY RESISTANT QUARTZ** can be achieved when installed in conjunction with a **Key Waterproofing and Crack Isolation Membrane**. An integral cove base can be installed in areas requiring seamless wall to floor coatings.

KEY ADVANTAGES

- Decorative Appearance
- High Chemical, Wear, 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 (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.

TYPICAL USES

KEY RESISTANT QUARTZ, a 1/8" system, is the best choice for heavy duty use in corridors, clean rooms, kitchen areas, classrooms, shower rooms, cafeterias, laboratories, correctional and health care facilities, or light production areas where high chemical resistant performance is critical.

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

Flammability	ASTM D-635	Self Extinguishing
Adhesive Strength	MIL-D-26413	420 psi
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	300 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	Nil
Thermal Shock Resistance	ASTM C-884	Passes
Abrasion Resistance	ASTM D-4060	32 mg
Impact Resistance	MIL-D-3134F §4.7.3	Withstands 16 ft./lbs. without cracking, delamination, or chipping.
Compressive Strength	ASTM C-579, 7 days	11,500 psi minimum
Tensile Strength	ASTM C-307	2,400 psi
Flexural Strength	ASTM C-580	4,300 psi
Thermal Coefficient of Expansion	ASTM C-531	22 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

COMPOSITION

100% solids, clear, chemical resistant epoxy resin with decorative colored quartz aggregates. Chemical resistant or novolac epoxy finish coats provide specific performance characteristics.

COLOR & AVAILABILITY

KEY RESISTANT QUARTZ is available in a variety of standard blends of colored quartz. 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.

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 QUARTZ** involves several steps including priming, applying successive base coats, broadcasting colored quartz, grouting, and sealing. For specific installation guidelines consult **Key Resin Company's Installation Instruction Manual**.

MAINTENANCE

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

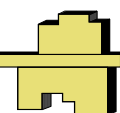
TECHNICAL SERVICE

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

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Key Resistant Quartz-2