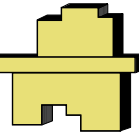


KEY RESIN COMPANY



# KEY COMMERCIAL

## DESCRIPTION

**KEY COMMERCIAL** is a decorative resin flooring system consisting of a trowelled base with a colored quartz aggregate broadcast finish. This durable quartz system provides decorative, heavy-duty protection at  $\frac{3}{16}$  to  $\frac{1}{4}$  inch. **KEY COMMERCIAL** is finished with clear catalyst-cured coats of resin available in a satin or gloss finish. The installed system reduces porosity and produces a dense, skid-inhibiting finish that minimizes bacterial growth and dirt and chemical penetration. The decorative quartz aggregates are available in a series of pre-blended patterns or solid colors.

Crack-free installations of **KEY COMMERCIAL** 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. For chemical resistant applications, specify **KEY COMMERCIAL-HP**

## KEY ADVANTAGES

- Decorative Appearance
- High Impact and Wear Resistance
- Low Maintenance
- Safe (non-skid)
- Chemical Resistant Finishes are Available

## 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 COMMERCIAL** is a  $\frac{3}{16}$ " to  $\frac{1}{4}$ " system ideal for heavy duty use in corridors, kitchen areas, cafeterias, laboratories, correctional and health care facilities, or bottling/packaging areas in distilleries and beverage facilities.

## 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
↑		Processing
↑	Food	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>Adhesive Strength</b>	MIL-D-26413	420 psi
<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	80-84 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 D-4060	32 mg
<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	2,400 psi
<b>Flexural Strength</b>	ASTM C-580	4,200 psi
<b>Thermal Coefficient of Expansion</b>	ASTM C-531	26 x 10 <sup>-6</sup>

# Neat Resin

## Performance Properties

<b>Compressive Strength</b>	ASTM D-695	13,000 psi
<b>Ultimate Tensile Strength</b>	ASTM D-638	4,200 psi
<b>Tensile Elongation</b>	ASTM D-638	6-8%
<b>Flexural Strength</b>	ASTM D-790	7,800 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

100% solids clear epoxy resin with decorative colored quartz aggregates. Urethane and epoxy finish coats provide specific performance characteristics.

## COLOR & AVAILABILITY

**KEY COMMERCIAL** 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 COMMERCIAL** involves several steps including priming, trowelled 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 COMMERCIAL**, 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 COMMERCIAL** 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.

## 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.

**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.

