

KEY RESIN COMPANY

KEY THIN-FILM COATING SYSTEMS

DESCRIPTION

KEY RESIN COMPANY formulates a variety of epoxy and polyurethane coatings specially designed to protect floors from various degrees of chemical attack and abrasion. **THIN-FILM SYSTEMS**, typically installed at 6-13 mils thickness, provide a brighter environment with improved cleanability over concrete surfaces. Review the requirements of your facility with the product data to select the finish that best meets the needs of the application.

KEY ADVANTAGES

- Improves Abrasion & Chemical Resistance of Concrete Floors
- Skid Resistant Finishes Available
- Gloss Brightens Environment
- Low Odor Formulations Available

KEY CONSIDERATIONS

- Substrate temperature must be a minimum of 50°F
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials
- Substrate irregularities will transmit through coating system
- Limited impact resistance--may chip with concrete

TYPICAL USES

KEY THIN-FILM COATING SYSTEMS are typically installed in light, pedestrian traffic areas that require a cleanable, durable, low-impact coating such as aircraft hangars, coolers, computer assembly areas, storage rooms, corridors, and garage floors.

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	250 psi (100% concrete failure)
Resistance to Elevated Temperature MIL-D-3134F §4.7.4	n/a
Coefficient of Friction ASTM D-2047	0.80
Water Absorption ASTM D-570	Nil
Thermal Shock Resistance ASTM C-884	Passes
Abrasion Resistance ASTM C-501	32 mg
Impact Resistance MIL-D-3134F §4.7.3	Will Chip Wwith Concrete
Compressive Strength ASTM C-579, 7 days	n/a
Tensile Strength ASTM C-307	n/a
Thermal Coefficient of Expansion ASTM C-531	n/a

COMPOSITION

KEY THIN-FILM COATING SYSTEMS are composed of epoxy primers with a wide selection of base and finish coats available to meet various exposure and performance requirements.

COLOR & AVAILABILITY

KEY THIN-FILM COATING SYSTEMS are 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.

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.

KEY THIN-FILM COATING SYSTEMS are installed three steps including priming, spreading base and finish coats with a trowel or squeegee to the desired thickness back-rolling with a medium or short nap roller. For specific installation guidelines, consult **Key Resin Company's Installation Instruction Manual**.

MAINTENANCE

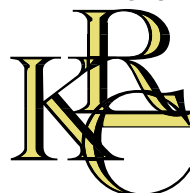
After completing the application of a **KEY THIN-FILM COATING SYSTEM**, the installer should provide the owner with maintenance instructions. If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly.

KEY THIN-FILM COATING SYSTEMS are 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

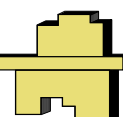
Key Resin Company and **KRC Associates, Inc.** provide services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **KEY REPRESENTATIVES** are available to assist you at any time. CALL (888)943-4532.

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.



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