



KEY ZYCKE

DESCRIPTION

KEY ZYCKE FLOORING is a nominal 50-60 mil polymer resin flooring system consisting of a clear UV light resistant epoxy resin binder and colored Zycke filler creating a uniquely colored floor system. **KEY ZYCKE** is optionally finished with clear catalyst-cured coats of epoxy, urethane or polyaspartic resin. The installed system reduces porosity and produces a dense, sanitary finish that minimizes bacterial growth and chemical penetration. The system can be made non-slip resistant as required for wet areas when installed with a clear topcoat containing Key Non-Skid Additive.

KEY ADVANTAGES

- Seamless Floor, Sanitary, Low Maintenance
- Unique Decorative Appearance
- Chemical Resistant Finishes Available
- Contributes Towards LEED Credits, Zero VOC Resin
- Key Bio Clean Anti-Microbial Available as Option
- Non-Slip Finish Available With Topcoat
- Durable, Wear Resistant

KEY CONSIDERATIONS

- On or below grade installation must have an efficient vapor barrier under the slab.
- Special treatments are necessary where excessive moisture vapor transmission or moisture content may be present.
- Substrate temperature must be a minimum of 60°F, low temperature cure system available.
- Substrate must be structurally sound, dry and free of contaminants.
- Follow all application procedures, use only notched rake/trowel to spread resin.

TYPICAL USES

KEY ZYCKE is ideal for any project needing a unique, distinctive decorative appearance with a requirement for USGBC LEED certification. Typical uses include corridors, lobbies, rest rooms, classrooms, retail areas, restaurant dining areas, laboratories, pharmaceutical clean rooms, medical facility operating rooms, and numerous other areas.



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, varies by sealer
Bond Strength to Concrete	ACI COMM #403, Bulletin 59-43	300-400+ psi minimum* (100% concrete failure) *Varies by concrete tensile strength
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 average, with sealer (varies by sealer type and/or use of non-skid additive)
Water Absorption	ASTM D-570	Nil
Thermal Shock Resistance	ASTM C-884	Passes
Abrasion Resistance	ASTM D-4060	32 mg average (varies by sealer type)
Impact Resistance	MIL-D-3134F 4.7.3	Withstands 16 ft/lbs. without cracking, delamination, or chipping
Compressive Strength	ASTM D-695	13,000 psi
Tensile Strength	ASTM D-638	4200 psi
Flexural Strength	ASTM D-790	7800 psi
Flexural Modulus	ASTM D-790	2.5×10^5
Thermal Coefficient of Expansion	ASTM C-531	22×10^{-6}

COMPOSITION

100% solids UV light resistant clear epoxy resin binder containing specially colored decorative filler. Optional epoxy, urethane or polyaspartic finish coats provide specific performance characteristics.

COLOR & AVAILABILITY

KEY ZYCKE is available in a variety of standard blends. Colors will not fade or wear thin. Refer to **KEY ZYCKE** color chart.

KEY RESIN 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 and recommended moisture testing.

Installation of **KEY ZYCKE** involves several steps including priming, applying a body coat, and optional topcoat(s). For specific installation guidelines consult **Key Resin Company's Installation Instruction Manual**.

MAINTENANCE

After completing the application of **KEY ZYCKE**, 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 ZYCKE 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 minor wear patterns necessitating a maintenance application of a finish coat. Refer to Key Resin Technical Bulletins #3 and #3-A for additional recommendations.

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 RESIN REPRESENTATIVES** are available to assist you. Telephone (888) 943-4532 or visit www.keyresin.com.

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.**