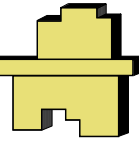




KEY RESIN COMPANY



KEY EPOXY TERRAZZO #108

DESCRIPTION

KEY EPOXY TERRAZZO is a highly decorative, pigmented, 100% solids, two-component epoxy resin system. Mixed with a wide selection of decorative aggregates and trowel applied to a 1/4" or 3/8" nominal thickness, **KEY EPOXY TERRAZZO** provides outstanding durability and wear resulting in the lowest life cycle costing of any flooring system available.

KEY EPOXY TERRAZZO does not support bacterial growth and is also available in conductive and novolac formulations. Crack-free installations of **KEY EPOXY TERRAZZO** can be achieved when installed in conjunction with a **Key Waterproofing and Crack Isolation Membrane**.

KEY ADVANTAGES

- Quick curing and finishing time
- Weighs less than conventional terrazzo: More suitable for multi-story buildings
- Lowest life-cycle costing floor available
- Extensive color capabilities allow for unlimited design variations

KEY CONSIDERATIONS

- Substrate temperature must be a minimum of 55°F
- 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 terrazzo topping

TYPICAL USES

KEY EPOXY TERRAZZO is ideal for almost any area where a monolithic, heavy duty floor surface is needed. In addition, **KEY EPOXY TERRAZZO** provides the ultimate in beauty and design. It is ideal for commercial, industrial, and institutional applications. **KEY EPOXY TERRAZZO**, when combined with marble or granite aggregate, withstands heavy industrial wear and chemical attack making it ideal for pharmaceutical and chemical plants.

KEY EPOXY TERRAZZO is the best choice for arenas, coliseums, schools, hospitals, institutions, and health care facilities due to its sanitary, joint free surface that is easily cleaned.

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
Critical Radiant Flux	ASTM D-648	1.0
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.
Electrical Conductivity		Nonconductive. Conductive formulations are available.
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
Indentation	MIL-D-3134F §4.7.4	Withstands 2,000 lbs/sq.in. for 30 minutes without indentation
Water Absorption	ASTM D-570	0.010%
Thermal Shock Resistance	ASTM C-884	Passes
Abrasion Resistance	ASTM D-4060	35 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	10,000 psi minimum
Tensile Strength	ASTM C-307	2,500 psi
Flexural Strength	ASTM C-580	3,000 psi
Thermal Coefficient of Expansion	ASTM C-531	21 x 10 ⁻⁶

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 Bulletins #1** and **#2** for specific preparation guidelines.

Installation of **KEY EPOXY TERRAZZO** involves several steps including setting divider strips to the architect's specifications for appearance, priming, trowelling to specified thickness, grinding, grouting, polishing, and sealing. For specific installation guidelines consult **Key Resin Company's Installation Instruction Manual**.

MAINTENANCE

After completing the application of **KEY EPOXY TERRAZZO**, 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 EPOXY TERRAZZO 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. **Key Resin Company** also recommends the owner consult the **National Terrazzo & Mosaic Association** guidelines for maintaining terrazzo surfaces.

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.

Neat Resin Performance Properties

Compressive Strength	ASTM D-695	15,500 psi
Ultimate Tensile Strength	ASTM D-638	3,000 psi
Tensile Elongation	ASTM D-638	4-8%
Flexural Strength	ASTM D-790	6,500 psi
Flexural Modulus	ASTM D-790	2.3 x 10 ⁵
Hardness	ASTM D-2240	65-85 Shore D

COMPOSITION

100% solids epoxy resin containing decorative marble, granite, or other aggregates.

CURE TIME

18-24 hours prior to grinding.

COLOR & AVAILABILITY

KEY EPOXY TERRAZZO allows the interior designer a wide choice of colors from deep reds and blues to pastels. Colors will not fade or wear thin.

KEY EPOXY TERRAZZO provides broad design flexibility. Unlimited beauty is achieved by selecting colors, patterns, and aggregate. Intricate, lasting designs can be created to the owner's requirements.

Imaginative use of brass, zinc, or plastic designer strips allows **KEY EPOXY TERRAZZO** to produce lasting variations of colors, designs, and configurations.

Key Resins 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.



Key Epoxy Terrazzo #108-2