

KEY #108-FCB EPOXY TERRAZZO HARDENER

Product Data Sheet



DESCRIPTION

KEY #108-FCB EPOXY TERRAZZO HARDENER is an accelerated part B Hardener mixed with Key #108 part A Matrix (resin) as binder that is mixed with terrazzo aggregates (chips) to create the Key Epoxy Terrazzo topping. Mix ratio by volume is 5 parts A:1 part FCB. **KEY #108-FCB EPOXY TERRAZZO HARDENER** is also mixed with Key #108 part A Matrix (resin) for use as fast cure epoxy grout to fill small air voids (micropores) revealed after the initial grinding process.

KEY ADVANTAGES

- Faster hardening, reducing wait time for grinding
- Use for grouting procedure
- Use for faster hardening terrazzo topping
- Use for faster hardening terrazzo fill mortar

KEY CONSIDERATIONS

- Substrate temperature must be a minimum of 50°F
- Reduced working time, plan work accordingly
- Follow all mixing instructions

COLOR SELECTION

KEY #108-FCB is Clear, color is added to Key #108 part A matrix (resin).

APPLICATION

SURFACE PREPARATION

Surface Preparation is the most critical portion to any successful resinous flooring system application. All substrates must be properly prepared as outlined in **Key Resin Technical Bulletin #1**. Work must be performed by trained or experienced contractors or maintenance personnel. The **Key Resin Technical Service Department** is available to answer any questions.

INSTALLATION

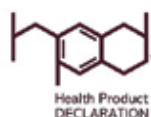
Installation of **KEY EPOXY TERRAZZO SYSTEM** involves several steps including setting divider strips to the architects specifications, priming, troweling to specified thickness, grinding, grouting, polishing and sealing. For specific installation guidelines, contact **Key Resin Technical Service**.

CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with xylene or lacquer thinner. Consult Safety Data Sheet (SDS) for safety and health precautions.

TYPICAL USES

KEY EPOXY TERRAZZO SYSTEM is ideal for almost any area where a monolithic, heavy duty decorative floor surface is needed. With the ultimate in beauty, design, durability and sanitation, it is the best flooring choice for commercial and institutional facilities, such as airports, sports arenas, museums, shopping malls, schools, hospitals, building lobbies/corridors, and numerous other types of facilities.



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SYSTEM PHYSICAL PROPERTIES

Abrasion Resistance	ASTM D4060 CS-17 Wheel, 1000 cycles	35 mg loss
Adhesion to Concrete	ASTM D7234	300-400+ psi (Concrete Failure, varies by concrete strength)
Compressive Strength	ASTM C579	10,000 psi minimum
Critical Radiant Flux	ASTM D648	1.0
Electrical Conductivity		Non-Conductive (Conductive Available)
Flammability	ASTM D635	Self-Extinguishing
Flexural Strength	ASTM C580	6,500 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
Indentation	MIL-D-3134J	Withstands 2,000 lbs/sq in for 30 minutes without indentation
Impact Resistance	MIL-D-3134J	Withstands 16 ft/lbs without cracking, delamination, or chipping
Resistance to Elevated Temperature	MIL-D-3134J	No slip or flow at required temperature of 158°F
Tensile Strength	ASTM C307	2,500 - 2,600 psi
Thermal Coefficient of Linear Expansion	ASTM C531 ASTM D696	25×10^{-6} inches per inch per degree °F to 140°F maximum
Thermal Shock Resistance	ASTM C884	Passes
Water Absorption	ASTM D570	0.010%

AVAILABILITY

Key Resin materials are available throughout the United States and a number of other countries. Contact the **Key Resin Representative** in your area for details.

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 TECHNICAL DATA

Mixing Ratio	5 Parts A:1 Part B by Volume	
Solids Content	100% Solids by Volume	
Volatile Organic Content (VOC) (EPA Method 24)	<50 g/L, compliant to low VOC Rule 1113 in all 50 states	
Chemical Resistance	ASTM D1308	No deleterious effects by chemical reagents for 7 days
Mix Ratio	5 parts A:1 part B	
Working Time: Grouting	20-25 Min @ 75°F	
Working Time: Topping/Fill	30-40 Min @ 75°F	
Walk-on Time:	4-6 hours @ 75°F	
Time to Grind:	6-8 hours @ 75°F	
Testing and Evaluation of Chemical Emissions from Indoor Sources using Environmental Chambers	ASTM D5116 CDPH - CA Section 01350	Meets Requirements

MAINTENANCE

Refer to the **KEY EPOXY TERRAZZO SYSTEM** Technical Data Sheet for further information.

TECHNICAL SERVICE

Key Resin Company provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **Key Resin Sales/Technical Representatives** are available to assist. Telephone 888.943.4532 or visit www.keyresin.com.

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