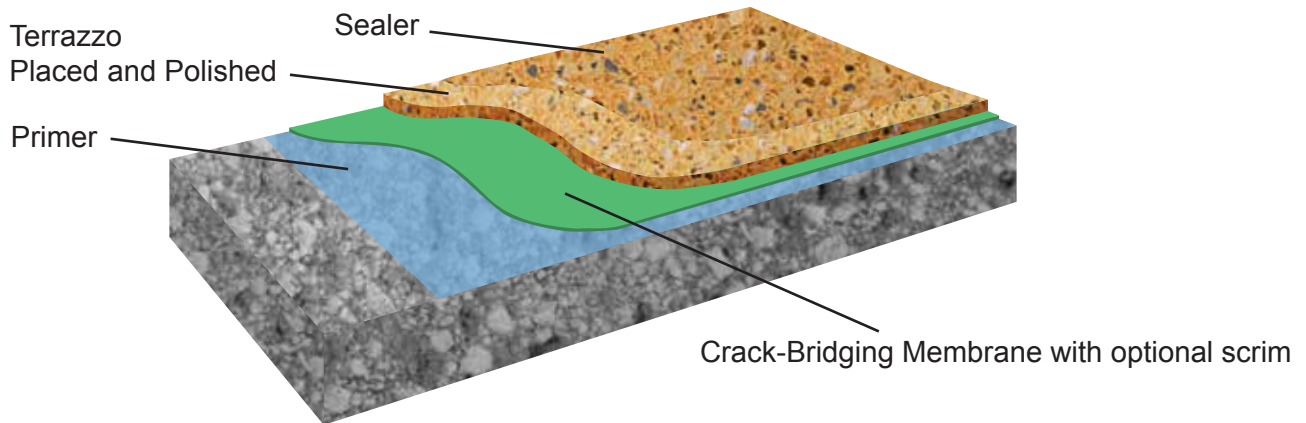


# KEY EPOXY TERRAZZO

Technical Data Sheet



## DESCRIPTION

**KEY EPOXY TERRAZZO** is a highly decorative flooring system that combines pigmented 100% solids epoxy resin with marble, colored glass, granite, or other approved aggregates and is trowel applied at 1/4" to 3/8" nominal thickness and ground and polished to expose a beautiful matrix of epoxy and aggregates. **KEY EPOXY TERRAZZO** provides outstanding durability and wear resistance resulting in the lowest life cycle cost of any flooring system available. **KEY EPOXY TERRAZZO** is available in conductive and highly chemical resistant epoxy novolac formulations. Crack and movement bridging installations of **KEY EPOXY TERRAZZO** can be provided when installed in conjunction with a **KEY #580 Waterproofing and Crack Isolation Membrane**.

## KEY ADVANTAGES

- Extensive color selection allows for unlimited design variations
- Colors will not fade or wear thin
- Chemical and stain resistant
- High wear, impact and abrasion resistance
- Rapid cure and finishing time
- Less weight than marble, granite and cement terrazzo, more suitable for multi-story buildings
- Low odor during application and cure, can be applied in occupied buildings
- Low maintenance, sanitary
- Resists bacteria and fungal growth
- Lowest life-cycle cost decorative flooring available
- Low odor for use in occupied areas
- Meets USGBC LEED criteria for low VOC
- Meets NTMA and TTMAC standards for epoxy terrazzo
- Key Resin Company is a member of the NTMA and TTMAC

## TYPICAL USES

- Office complexes
- Commercial applications
- Lobbies and corridors
- Arenas/Stadiums/Coliseums
- Airports
- Government facilities
- Libraries
- Schools and universities
- Hospitals and other healthcare facilities
- Residential
- Numerous other uses—consult with **Key Resin**

## PHYSICAL PROPERTIES

Test Name	Method	Value
Adhesion to Concrete	ASTM D7234	300-400+ psi (Concrete Failure, varies by concrete strength)
Compressive Strength	ASTM C579	10,000 psi
Flexural Strength	ASTM C580	3,000 psi
Tensile Strength	ASTM C307	2,500 - 2,600 psi
Thermal Shock Resistance	ASTM C884	Passes
Thermal Coefficient of Linear Expansion	ASTM C531 ASTM D696	25 x 10 <sup>-6</sup> inches per inch per degree °F to 140°F maximum
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-in <sup>2</sup> for 30 mins with no indentation
Impact Resistance	MIL-D-3134F §4.7.4	Withstands 16 ft-lbs without cracking, delamination or chipping
Abrasion Resistance	ASTM D4060, CS17 Wheel, 1000 cycles	35 mg
Critical Radiant Flux	ASTM D-648	1.0
Electrical Conductivity		Non-Conductive Conductive Available
Flammability	ASTM D635	Self Extinguishing over concrete
Fungus and Bacterial Growth	MIL-F-52505 §4.4.2.11	Will not support growth of fungus or bacteria
Water Absorption	ASTM D570	0.010%
Slip Resistance	ASTM D2047 ANSI 131.1	>0.6 Passes ADA >0.42 Passes ANSI

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## APPLICATION

### SURFACE PREPARATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared and tested for moisture as outlined in **Key Resin Technical Bulletin #1**. If moisture testing confirms excessive levels of moisture, apply moisture mitigation system recommended by **Key Resin**. Work must be performed by experienced contractors. The **Key Resin Technical Service Department** is available to answer any questions.

### INSTALLATION

**KEY EPOXY TERRAZZO** material components are mixed on site, poured and troweled, followed with grinding, polishing and sealing. Refer to the detailed installation instructions document and **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.

## MAINTENANCE

After completing the application of **KEY EPOXY TERRAZZO** the installer should provide the owner with maintenance instructions. **KEY EPOXY TERRAZZO** is easily cleaned with neutral soaps or detergents. For specific care and maintenance guidelines, refer to the **Key Epoxy Terrazzo Maintenance Guidelines Bulletin**. **Key Resin Technical Bulletin #3** and **#3A** can also be referenced for additional recommendations.

## SYSTEM OPTIONS

- Conductive formulation
- High chemical resistance formulation
- Crack and movement bridging installations
- Rapid cure formulations for minimal finishing time

## 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](http://www.keyresin.com).

## AVAILABILITY

**Key Resin** materials are available throughout the United States, Canada, China, 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.



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