



KEY RESIN COMPANY

KEY EPOXY TERRAZZO #108-HT

DESCRIPTION

KEY EPOXY TERRAZZO-HT is a high temperature and chemical resistant, 100% solids, epoxy terrazzo matrix. Mixed with a wide selection of decorative aggregates and trowel applied to a 1/4" or 3/8" nominal thickness, **KEY EPOXY TERRAZZO-HT** provides the outstanding durability and wear resulting of epoxy terrazzo with exceptional temperature and chemical resistance.

Crack-free installations of **KEY EPOXY TERRAZZO-HT** can be achieved when installed in conjunction with a **Key Waterproofing and Crack Isolation Membrane**.

KEY ADVANTAGES

- Quick curing and finishing time
- High Temperature & Chemical Resistance
- 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
- Overall chemical resistant performance is limited to performance of aggregates used in the system
- 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-HT is ideal for almost any area where a monolithic, high performance, heavy duty floor surface is needed. In addition, **KEY EPOXY TERRAZZO-HT** provides the ultimate in beauty and design. **KEY EPOXY TERRAZZO-HT** withstands heavy industrial wear and chemical attack making it ideal for bakeries and pharmaceutical and chemical plants.

CHEMICAL RESISTANCE GUIDE

<i>Organic Acids</i>	<i>Performance</i>
Acetic Acid–20%	S-2
Acetic Acid, Glacial	NR
Citric Acid–40%	S-1
Lactic Acid–50%	S-1
<i>Inorganic Acids</i>	<i>Performance</i>
Hydrochloric Acid–37%	S-1
Nitric Acid–10%	S-2
Phosphoric Acid–85%	S-2
Sulfuric Acid–10%	S-1
Sulfuric Acid–70%	S-2
<i>Solvents</i>	<i>Performance</i>
Isopropanol	S-2
Gasoline	S-2
Ethanol	S-2
Methanol	S-2
111 Trichloroethane	S-3
Xylene	S-2
<i>Alkali</i>	<i>Performance</i>
Ammonium Hydroxide–50%	S-1
Sodium Hydroxide	+
<i>Miscellaneous Chemicals</i>	<i>Performance</i>
Beer	+
Bleach–5% (Sodium Hypochlorite)	+
Break Fluid	S-1
Crisco	S-1
Orange Juice	S-1
Peroxide–35%	S-2
Skydrol	S-2

- + Continuous Service(greater than 6 months)
- S-1** Splash & Spill with Weekly Clean-up
- S-2** Splash & Spill with 24 hour Clean-up
- S-3** Splash & Spill with Hourly Clean-up
- NR** Not Recommended
- ND** No Data

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-HT** 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-HT**, 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-HT 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	10,000 psi
Flexural Modulus	ASTM D-790	2.3 x 10 ⁵
Hardness	ASTM D-2240	65-85 Shore D

COMPOSITION

100% solids epoxy and modified novolac epoxy resin containing decorative aggregates.

CURE TIME

18-24 hours prior to grinding.

COLOR & AVAILABILITY

KEY EPOXY TERRAZZO-HT 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-HT 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 strips allows **KEY EPOXY TERRAZZO-HT** 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-HT-2