

K-POXY EPOXY TERRAZZO®



Product Description

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

KEY ADVANTAGES

- Quick curing and finishing time
- Weights less than conventional terrazzo: More suitable for multi-story building
- Lowest life-cycle coating 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

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

APPLICATION

Concrete surfaces must be in sound condition and properly prepared prior to any **K-POXY TERRAZZO®** flooring system installation. Refer to **Klein and Company's Technical Bulletins #1 and #2** for specific preparation guidelines.

Installation of **K-POXY TERRAZZO®** involves several steps including setting divider strips to the architect's specification for appearance, priming, troweling to specified thickness, grinding, grouting, polishing, and sealing. For specific installation guidelines consult **Klein and Company's Installation Instruction Manual**.

MAINTENANCE

After completing the application of **K-POXY 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.

COMPOSITION

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

CURE TIME

18-24 hours prior to grinding.

COLOR & AVAILABILITY

K-POXY TERRAZZO®, allows the interior designer a wide choice of colors from deep reds and blues to pastels. Colors will not fade or wear thin.

K-POXY 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 **K-POXY TERRAZZO®** to produce lasting variations of color, designs, and configurations. **KLEIN AND COMPANY, INC.**

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Seller Warrants that should this product prove to be defective, it will be replaced or refund will be issued for price of goods. The suitability of a product for an intended use shall be solely up to the user. Seller assumes no liability for consequential damages. Liability shall in no event exceed the purchase price of materials supplied by KCI. No person has the authority to change such terms and there are no warranties except as herein stated.

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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 §4.7.7	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 Release 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	21×10^{-6}

NEAT RESIN

Performance Properties

Compressive Strength ASTM D-695	15,000 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	2.3×10^5
Hardness ASTM D-2240	65-88 Shore D

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