



KEY MORTAR STD “GREEN”

DESCRIPTION

KEY MORTAR STD “GREEN” is a 3/16”-1/4” environmentally friendly troweled mortar resin flooring system consisting of 100% solids, low VOC epoxy resin containing up to 30% recycled content for the flooring system. The mortar topping is grouted and sealed with pigmented, catalyst-cured coats of resin. The installed system can be textured or smooth as desired. Easy maintenance minimizes bacterial growth. The pigmented topcoats are available in Key Resin Standard Colors or custom colors.

Crack-resistant installations of **KEY MORTAR STD “GREEN”** can be achieved when installed in conjunction with **Key #580 Flexible Crack Isolation Membrane**. An integral cove base can be installed in areas requiring seamless wall to floor coatings. For greater chemical and heat resistant applications, specify **KEY MORTAR STD-HP “GREEN”** or **KEY CONTAIN STD “GREEN”**.

KEY ADVANTAGES

- Durable, Long Life Cycle Floor System
- High Wear, Impact and Abrasion Resistance
- Thermal Shock Resistant
- Low Maintenance
- Contributes Towards LEED Credits, Environmentally Friendly
- Low VOC Resin
- Contains up to 30% Total Recycled Content
- Chemical Resistant Finishes are Available

KEY CONSIDERATIONS

- On or below grade installation must have an efficient vapor barrier under the slab.
- Special treatments are necessary where hydrostatic pressure or moisture vapor transmission may be present.
- Substrate temperature must be a minimum of 55°F (Low temperature cure system available on request).
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials.

TYPICAL USES

KEY MORTAR STD “GREEN” is ideal for any new or renovation project with a requirement for USGBC LEED certification. Typical uses include commercial kitchens, rest rooms, high traffic areas, cafeterias, food and beverage processing areas, pharmaceutical manufacturing, heavy manufacturing areas, and numerous other areas.



TECHNICAL DATA SYSTEM PERFORMANCE PROPERTIES

Flammability	ASTM D635	Self Extinguishing
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.
Hardness	ASTM D2240	85-90 Shore D
Adhesion Strength to Concrete	ASTM D7234	300-400+ psi (concrete failure) Varies by concrete tensile strength
Resistance to Elevated Temperature	MIL-D-3134F §4.7.4	No slip or flow at required temperature of 158°F
Slip Resistance	ASTM D2047	>0.60 average Exceeds ADA recommendations
Water Absorption	ASTM D570	Nil
Thermal Shock Resistance	ASTM C884	Passes
Abrasion Resistance	ASTM C501	32 mg average (varies by sealer type, texture)
Impact Resistance	MIL-D-3134F 4.7.3	Withstands 16 ft/lbs. without cracking, delamination, or chipping
Compressive Strength	ASTM C579	10,500 psi
Tensile Strength	ASTM D412	2,400 psi
Flexural Strength	ASTM C580	4,200 psi
Thermal Coefficient of Expansion	ASTM C531	26x10 ⁻⁶ in./in.°F

COMPOSITION

100% solids epoxy resin binder containing silica, recycled glass and quartz fillers. Epoxy, urethane or polyaspartic finish coats provide specific performance characteristics.

COLOR & AVAILABILITY

KEY MORTAR STD "GREEN" is available in a variety of Key Resin Standard Colors or custom colors. Colors will not fade or wear thin.

Key Resin Flooring Systems are available throughout the United States and a number of other countries. Contact **Key Resin** for details.

MAINTENANCE

After completing the application of **KEY MORTAR STD "GREEN"**, 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 MORTAR STD "GREEN"** is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing is recommended for all surfaces having a non-skid texture. Waxing is optional. Refer to Key Resin Technical Bulletins #3 and #3-A for additional recommendations.

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 you. Telephone **888.943.4532** or visit www.keyresin.com.

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.