

KEY MORTAR SL

DESCRIPTION

KEY MORTAR SL is a 1/16" seamless, low maintenance, slurry system that produces a dense, non-porous floor that is chemical and dirt resistant. Ideal for light to medium traffic areas, **KEY MORTAR SL** may be sealed to meet your facility's needs to enhance abrasion resistance, gloss retention, and non-skid properties.

KEY MORTAR SL can be installed with an integral cove base for areas requiring seamless wall to floor coatings. For chemical resistant applications, specify **KEY MORTAR SL-HP**.

KEY ADVANTAGES

- High Wear, Impact, and Abrasion Resistance
- Low Maintenance
- Safe (non-skid)
- 100% Solids Provides Low Odor Application
- 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.
- All control joints and expansion joints in the substrate must be revealed with the appropriate divider strips in the topping.

TYPICAL USES

The **KEY MORTAR SL** 1/16" system is used in light traffic areas such as powder rooms, hotel/motel bathrooms, warehouse floors, and stock rooms.

SELECTION GUIDE

↑	Activity Centers
↔	Aircraft Hangars
↑	Airports
	Baggage/Service
	Terminals
↔	Animal Areas
↔	Housing
	Cage Washing
	Processing
↑	Beverage
	Packaging/Warehousing
	Bottling
↑	Cafeterias
↔	Chemical Processing
↑	Clean Rooms
	Coolers
↔	Computer Assembly
	Commercial Kitchens
	Containment Areas
↑	Convention Centers
↑	Correctional Facilities
↔	Corridors
	Docks/Ramps
↔	Dairies
↑	Distilleries
	Packaging
	Bottling
↔	Food
	Processing
↑	Preparation Service
↑	Garages
↑	Hospitals
	Corridors & Lobbies
	Patient Rooms
	Operating Rooms
↑	Services
↑	Laboratories
↑	Laundries
↑	Locker Rooms
↑	Machine Shops
↑	Manufacturing
	Light Duty
	Heavy Duty
↔	Meat, Fish, Poultry Processing
↔	Mechanical Equipment Rooms
	Munitions Facilities
	Parking Garages
	Interior Decks
	Exterior Decks
↔	Pharmaceutical Plants
	Pulp and Paper Processing Facilities
↔	Schools
	Shopping Malls
↑	Showers
↑	Utilities
↑	Warehouses
↔	Waste Water Treatment Facilities

↑-Excellent Choice ↔-Alternate Choice

TECHNICAL DATA

System Performance Properties

Flammability ASTM D-635	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 D-2240	80-84 Shore D
Bond Strength to Concrete ACI COMM #403, Bulletin 59-43	250 psi (100% concrete failure)
Resistance to Elevated Temperature MIL-D-3134F §4.7.4	No slip or flow at required temperature of 158°F
Coefficient of Friction ASTM D-2047	0.80
Water Absorption ASTM D-570	Nil
Thermal Shock Resistance ASTM C-884	Passes
Abrasion Resistance ASTM C-501	32 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	11,000 psi
Tensile Strength ASTM C-307	2,400 psi
Thermal Coefficient of Expansion ASTM C-531	26×10^{-6}

Neat Resin

Performance Properties

Compressive Strength ASTM D-695	13,000 psi
Ultimate Tensile Strength ASTM D-638	4,200 psi
Tensile Elongation ASTM D-638	6-8%
Flexural Strength ASTM D-790	7,800 psi
Flexural Modulus ASTM D-790	2.5×10^5
Hardness ASTM D-2240	65-85 Shore D

COMPOSITION

KEY MORTAR SL is composed of 100% solids epoxy resin filled with a variety of graded quartz, silica, or ceramic fillers that can be modified to create the best design mix for ideal performance. A wide selection of finish coats is available to meet various exposure requirements.

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 Bulletin #1** for specific preparation guidelines.

Installation of **KEY MORTAR SL** involves several steps including priming, applying base coats, and sealing. For specific installation guidelines consult **Key Resin Company's Installation Instruction Manual**.

MAINTENANCE

After completing the application of **KEY MORTAR SL**, 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 SL 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.

COLOR & AVAILABILITY

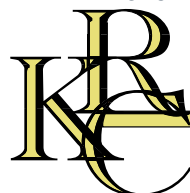
KEY MORTAR SL is available in a variety of standard colors. Custom colors are available subject to laboratory approvals, minimum quantities, lead time for production and increased cost. Colors will not fade or wear thin.

Key Flooring Systems are available throughout the United States, Canada, and a number of other countries. Contact the **KEY REPRESENTATIVE** in your area for details.

TECHNICAL SERVICE

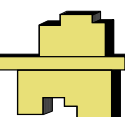
Key Resin Company and **KRC Associates, Inc.** provide services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **KEY REPRESENTATIVES** are available to assist you at any time. CALL (888)943-4532.

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.



KEY RESIN COMPANY

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