



KEY MORTAR WALL SURFACING

DESCRIPTION

KEY MORTAR WALL SYSTEM is a 100% solids Epoxy Wall System designed to form a high impact, abrasion and corrosion resistant mortar for vertical surfaces.

Typical uses for **KEY MORTAR WALL SYSTEM** are added impact resistant in industrial areas, patching and surfacing deteriorated concrete walls, drainage trenches.

KEY MORTAR WALL SYSTEM requires the use of appropriate epoxy primer and bonds well to concrete, concrete block, metal and wood substrates.

KEY ADVANTAGES

- Impact resistance
- UV resistant (using urethane topcoat)
- Chemical resistant
- 100% solids, low odor (most topcoats)

KEY CONSIDERATIONS

- Substrate temperature should be a minimum of 60°-85°F.
- Substrate temperature must be at least 5°F above the dew point.
- Application on concrete substrate should occur while temperature is falling to lessen off-gassing.
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials.

COMPOSITION

Two component 100% solids epoxy plus aggregate mortar with urethane or epoxy finish

APPLICATION

SURFACE PREPARATION

Surface Preparation is the most critical portion of any successful resinous coating system application. All substrates must be properly prepared as outlined in **KEY RESIN COMPANY'S TECHNICAL BULLETIN #1**. Work must be performed by trained or experienced contractors or maintenance personnel.

INSTALLATION

Key Resin Systems are installed by trained **Key Resin** contractors. Consult **Key Resin Company's Installation Instruction Manual** covering our **KEY MORTAR WALL SYSTEM**. Call **KEY RESIN COMPANY** tech service for assistance.

KEY MORTAR WALL SYSTEM is trowel applied vertically at a nominal 1/8" thickness to the properly prepared wall. Any filling of irregularities or patches of deteriorated concrete must be done in advance of the troweled mortar. The troweled surface is grouted/sealed with the appropriate finish coat(s) based on project requirements.

CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with xylene or lacquer thinner.

COVERAGE

Consult **Key Resin Company's Installation Instruction Manual** for component coverage rates.

TECHNICAL DATA

Typical Performance Properties

Solids, By Volume (neat resin)	100%
VOC (Volatile Organic Compounds)	-0
Hardness, Shore D ASTM D-2240	80-85
Tensile Strength ASTM C-307	2400 psi
Adhesion/Bond Strength ACI 503R	300-400 psi 100% concrete failure
Flammability ASTM D-635	Self-Extinguishing over concrete
Thermal Cycling (24 hours, 6°F – 77°F) ASTM C-884	No cracking
Permeability @ 95% Humidity MIL-I-16923	<0.01 gm/ft ² /24 hrs./inch thickness
Compressive Strength (system) ASTM-C-579	14,000 psi
Flexural Strength (neat resin) ASTM-D-790	7800 psi
Indentation Mil-D-3134F	No indentation
Thermal Coefficient of Linear Expansion ASTM-C-531	2.6x10 ⁻⁵ in./in. - °C
Chemical Resistance	Refer to sealer data sheet

TYPICAL USES

KEY MORTAR WALL SYSTEM is ideal for walls or containment areas requiring added impact, abrasion or chemical resistance. Provides attractive, sanitary and easy to clean surfaces.

COLOR SELECTION

Key Standard Colors or as approved.

AVAILABILITY

Key Resin Products are available throughout the United States, Canada, and a number of other countries. Contact the **Key Resin Representative** in your area for details.

MAINTENANCE

After completing the application of the **KEY LASTIC WALL COATING SYSTEM**, the installer should provide the owner with maintenance instructions

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 replacement of concrete surfaces. **Key Resin Sales/Technical Representatives** are available to assist you.

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 OR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.