
Epoxy Systems'TM Epoxy Mortar STD

100% Solids Standard Epoxy Mortar

GENERAL DESCRIPTION

Epoxy Systems' Epoxy Mortar STD uses 100% solids Epoxy with graded aggregates. Urethane and Epoxy finish coats provide specific performance characteristics as needed

Epoxy Systems' Epoxy Mortar STD is a resin patching, flooring, and/or repair system consisting of 100% solids epoxy resin and aggregates which provide heavy-duty protection at 3/16" to 1/4". When grouted and sealed, Epoxy Systems' Epoxy Mortar STD eliminates porosity and produces a dense, skid-inhibiting finish that will minimize dirt and chemical penetration.

Epoxy Systems' Epoxy Mortar STD can also be installed with a conductive system for dissipation of static electricity in areas that are subjected to physical abuse and moderate to heavy wear and impact.

Epoxy Systems' Epoxy Mortar STD is trowel applied and can be used to form an integral cove base where specified. It has good chemical resistance and is designed for high impact and heavy duty use.

Epoxy Systems' Epoxy Mortar STD (HP) is the High Performance Mortar exhibiting excellent chemical resistance and utilizes Epoxy Systems' Product #2 Chemical resistant Resin or Epoxy Systems' Product #630 Novolac Epoxy for maximum resistance.

ADVANTAGES

- 2 Will Not Support Growth of Fungus or Bacteria*
- 2 High Impact and Wear Resistant*
- 2 Chemical Resistant*
- 2 Thermal Shock Resistant*
- 2 Hand or Power Trowel Applied*
- 2 Optional Seal Coats and Aggregates*

SURFACE PREPARATION

Surface must be clean and sound. Remove all dirt, laitance, grease curing compounds and other foreign matter by sandblasting, shot blasting, or mechanical abrasion. Remove water and dust from all surfaces with an oil-free blast immediately prior to application.

MIXING AND INSTALLATION INSTRUCTIONS

Roll or squeegee a prime coat. Trowel apply mortar to desired thickness. Grout and Top Coat as needed to achieve required finish and texture.

Do not use in temperatures below 55 degrees F, as cooler temperatures delay hardening. Substrate must be free from hydrostatic pressure, moisture transmission, curing agents and other foreign materials. Urethane seal coats are recommended for areas exposed to intense sunlight. Allow 16 hours for initial set of mortar. Seal Coat time may vary.

SAFETY PRECAUTIONS

Prolonged or repeated exposure may cause eye and skin irritation. If contact occurs, wash immediately and seek medical help. Use safety glasses with side shields and wear protective rubber gloves.

CLEANING

All tools and equipment should be cleaned before the system gels. Use MEK, Acetone, or any lacquer solvent.

APPLICATION PROPERTIES @77 DEGREES F	
Mix Ratio	4:1 by volume
Color	Clear, Standard Colors, Color matching also available
Initial Cure	16 hours
PHYSICAL AND PERFORMANCE PROPERTIES	
Compressive Strength (ASTM D-695)	13000 psi (neat resin)
Ultimate Tensile Strength (ASTM D638)	4200 psi (neat resin)
Tensile Elongation (ASTM D-638)	6-8% (neat resin)
Flexural Strength (ASTM D-790)	7800 psi (neat resin)
Flexural Modulus (ASTM D-790)	2.5 x 10 ⁵ PSI
Tensile Strength (ASTM C-307)	2400 psi
Weight at 1/4 inch thick	2.0 - 2.5 #/sq. ft.
Adhesive Strength (Mil D-24613)	420 psi
Adhesion to Concrete (ACI Committee 403)	300 psi (Concrete Fails)
Hardness Shore D (ASTM D-2240)	80-84
Water Absorption (MIL D-24613)	Nil
Abrasion Resistance (ASTM C-501)	50 mg
Impact Resistance (MIL-D-3134F SS 4.7.4)	Withstands 16 ft/lbs without cracking, delaminating, or chipping.
Compressive Strength (ASTM C-579)	14000 psi @ 7 days
Flexural Strength (ASTM C-580)	4,200 psi
Coefficient of Friction (ASTM D-2047)	0.80
Thermal Coefficient of Expansion (ASTM C-531)	26 x 10 ⁻⁶ in/in/degree F.
Thermal Shock Resistance (ASTM C-884)	Passed
Fungus & Bacteria Resistance (Mil -F-52505 SS4.4.2.11)	Will not support growth of fungus or bacteria when subjected to mildew and bacteria tests specified in TT-P-34

For more information about this product or any other Epoxy Systems™ product, please contact:

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