

EPX-MR

EPOXY MORTAR RESURFACER SYSTEM

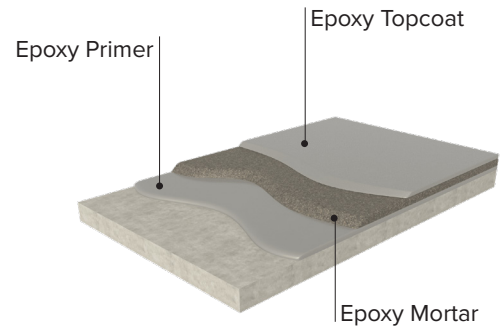
Resinwerks Epoxy Mortar resurfacing system is a 100% solids concrete resurfacing system system that offers a high degree of impact and abrasion resistance. Designed to repair and replace existing commercial & industrial floors, EPX-MR provides for a new surface that may be top-coated with any Resinwerks coating system. Once mixed with aggregate, EMR may be troweled by hand or power-trowel depending on the scope of the project.

Applications

- Resurface old floors
- Shop floors
- Industrial
- Equipment Pads
- Sloping

Features:

- High compression strength
- Alternative to new concrete
- Low Odor & VOC
- Topcoat with any system
- Polishable



SYSTEM COMPONENTS:	
PRIMER:OPTIONS:	
Epoxy Mortar Resurfacer	125 ft ² / gallon
TROWELED MORTAR:	
Epoxy Mortar Resurfacer	35 ft ² / gallon
Trowel Aggregate	2 lb. / ft ²
GROUT COAT OPTIONS:	
Epoxy Mortar Resurfacer	100 ft ² / gallon

TEST TYPE		
Hardness	ASTM D-2240	Shore D: 80
Compressive Strength	ASTM C-579	13,500 psi
Tensile Strength	ASTM C-307	2,100 psi
Flammability	ASTM D 635	Self extinguishing
Impact Resistance	ASTM D 2794	220lb
Flexural Strength	ASTM C-580	4,300 psi
Adhesion	ASTM D-4541	500+ PSI
Coefficient of Friction	ASTM D-2047	> 0.6 / pass
Flexural Modus of Elasticity	ASTM C-580	2.0 x 10 ⁶ PSI
Water Absorption	ASTM D 570	.04%
Thermal Coefficient of Linear Expansion	ASTM C-531	1.2 x 10 ⁵

For Professional Use Only

Please reference all product Technical Data and Material Safety Data Sheets prior to use. Mock-ups are strongly recommended to validate

SURFACE PREPARATION

Ensure substrate to be coated is clean, dry, and in sound condition. All laitance, curing compounds, concrete hardeners, and other surface contaminants must be removed. Prepare concrete in accordance with ASTM D 4259-83. Mechanical shot blasting or planetary grinding is recommended to achieve a surface profile of ICRI CSP 4. Surface to be coated must be completely porous, thoroughly vacuumed, and free of excessive dust & contaminants.

MOISTURE IN CONCRETE

Concrete slabs should be tested prior to application for elevated moisture vapor emission levels. Resinwerks recommends ASTM F2170-19 standard for determining relative humidity in concrete slabs using RH probes. Moisture level results will determine recommended mil thickness for application.

DE-GREASING OF CONTAMINATED SUBSTRATES

For concrete substrates containing oil, animal fats, or other carbon based contaminants, slabs should be de-greased appropriately using an enzymatic based concrete de-greasing agent. Multiple applications may be required depending on the level of contamination.

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TREATMENT OF JOINTS & CRACKS

Prior to installation of any Resinwerks primer, all joints, cracks and other substrate irregularities must be addressed. For more information on specific joint treatment procedures, please reference Resinwerks joint-treatment guidelines.

COVE BASE

For projects requiring a perimeter vertical cove base, please reference Resinwerks cove base installation guidelines or contact your local Resinwerks representative for more information.

COATING APPLICATION

1. Primer: Epoxy Mortar Resurfacer

- **Mixing:** Prior to mixing, all products should be properly acclimated to the local ambient room temperature of 60°F(15.6°C)-80°F(26.7°C).
- Thoroughly mix both part A and Part B separately prior to mixing. Mix by volume, 2-Parts A to 1-Part B for 2-3 minutes.
- **Application:** Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a notched squeegee depending on desired thickness.
- Recommended Coverage rate for 100% Solids Epoxy Mortar Resurfacer is 125 Ft² per gallon.
- Immediately back-roll smooth with a 3/8" nap roller. Depending on ambient environmental and slab temperatures, material will be dry to the touch and ready for subsequent coats within approximately 6-8 hours following application
- Please reference the Epoxy Mortar Resurfacer Technical Product Data Sheet or contact Resinwerks directly for additional application specifics.

2. Mortar Coat: Epoxy Mortar Resurfacer + Aggregate

- **Mixing:** as a Binder Matrix: Prior to mixing, all products should be properly acclimated to the local ambient room temperature of 60°F(15.6°C) - 80°F(26.7°C).
- Charge 50 lb of Resinwerks Multi-Cast "F" aggregate to a mortar mixer.
- Thoroughly agitate both part A and Part B separately prior to mixing. In a 5-gallon pail, mix by volume, 2-quarts Part A to 1-quart Part B. Once mixed, pour into tumbling TC-98 Aggregate and mix for approximately 10-12 revolutions.
- **Application:** Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a 3/16"-1/4" gauge rake depending on desired thickness. Immediately trowel smooth either by hand or with a power trowel. Depending on ambient environmental and slab temperatures, material will be dry to

Important:

Inhalation of vapor or mist can cause headache, nausea irritation of nose, throat, and lungs. Avoid breathing vapors, it is strongly recommended that respirators are worn. Prolonged or repeated skin contact can cause slight skin irritation. All epoxies have the potential of causing skin irritations or allergic reactions. Be careful not to get on skin, clothes or in eyes. Gloves are strongly recommended. If splashed in the eye, flush with warm water and contact a physician if blurring persists.

Solvent based products are extremely flammable, extinguish all pilot lights and sources of ignition such as electrical motors. Be sure to have adequate cross ventilation prior to installing.

Resinwerks recommends the use of slip-resistant additives in all coating systems that are subject to heavy foot traffic and especially those within wet or oily environments It is the end-user's responsibility to provide flooring that meets current safety standards and local coefficient of friction requirements. Resinwerks nor any of its distributors are responsible for injury resulting from any slip and fall incident.

- the touch and ready for subsequent coats within approximately 6-8 hours following application. Contact Resinwerks directly for additional application specifics.

3. Grout Coat: Epoxy Mortar Resurfacer

- **Mixing:** Prior to mixing, all products should be properly acclimated to the local ambient room temperature of 60°F(15.6°C)-80°F(26.7°C).
- Thoroughly mix both part A and Part B separately prior to mixing. Mix by volume, 2-Parts A to 1-Part B for 2-3 minutes.
- **Application:** Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a notched squeegee depending on desired thickness.
- Recommended Coverage rate for 100% Solids Epoxy Mortar Resurfacer as a grout coat is 100 Ft² per gallon.
- Immediately back-roll smooth with a 3/8" nap roller. Depending on ambient environmental and slab temperatures, material will be dry to the touch and ready for subsequent coats within approximately 6-8 hours following application
- Final system may be top coated with any Resinwerks coating system.
- Please reference the Epoxy Mortar Resurfacer Technical Product Data Sheet or contact Resinwerks directly for additional application specifics.



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