

LEVEL-GUARD EM™



TECHNICAL DATA SHEET

LEVEL-GUARD EM™ IS A 2-PART 100% SOLIDS SELF-LEVELING FLEXIBLE EPOXY MEMBRANE. EM is an elastomer modified epoxy that is suitable for use over multiple types of substrates including concrete, wood and quarry tile. It serves as a waterproofing membrane primer under resinous flooring systems in applications such as commercial kitchens, laboratories and health clinics. LevelGuard EM greatly reduces the transmission of small cracks and can be used as a primer in many types of decorative and high-traffic resinous flooring systems.

USES:

- » Locker Rooms
- » Commercial Kitchens
- » Health Clinics
- » Wet Processing Areas
- » Secondary Containment

ADVANTAGES:

- » Low Odor, 0-VOC
- » 150% elongation
- » Easy to use 1:1 mix ratio
- » Superior leveling qualities
- » Excellent adhesion

MIX RATIO:

Clear:

- » 1 Parts A to 1 Part B by Volume

PACKAGING & SHELF-LIFE

Level Guard EM is available in the following Units:

- » Clear 10-gallon Kit: One 5-gal. pails part A + One 5-gal. pail part B

SUGGESTED APPLICATION:

Suitable Substrate(s):

- » Apply at 16-20 mil thickness to properly profiled substrate.
- » Typical application consists of 2 coats with a primer and second coat broadcasted with sand for texture.

ANCILLARY PRODUCTS:

Level-Guard EM may be used as a primer under most Resinwerks products and full systems. Universal post-ad pigments may be used to pigment accordingly.

MATERIAL COVERAGE	
THICKNESS	APPROXIMATE COVERAGE
8-mils	200 ft ² / gallon (4.8m ³ /L)
16 mils	100 ft ² / gallon (3.2m ³ /L)
20 mils	80 ft ² / gallon (2.0m ³ /L)

GENERAL PRODUCT INFORMATION

Colors: Clear

Solids Volume: 100%

V.O.C.: 0 grams per liter

Pot-life: 30-Minutes @ 70° F

Cure Schedule: 70° F @ 50% R.H.

To touch: 8-10- Hours

To re-coat: 10-12- Hours Minimum

48-Hours Maximum

Foot Traffic: 24-Hours

Heavy Traffic: 36-Hours

Reducer: Not recommended

Application Temp: 60°F(15.6°C) - 90°F(32.2°C)

Environment: For Interior Use Only

Shelf Life: 24-months factory sealed

GENERAL PRODUCT PERFORMANCE

TEST TYPE	TEST METHOD	RESULT
Hardness	ASTMD 2240 Shore A	80
Compressive Strength	ASTMD 695	11,000
Elongation	ASTM D-412	150%
Tensile Strength	ASTM D-412	2,400 psi
Flexibility 1/4" cylindrical mandrel	ASTMD 522	Pass
Impact Resistance	ASTMD 2794	120
Coefficient of Friction	ASTMD-2047	> 0.6 / pass

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SURFACE PREPARATION

Level-Guard EM™ is intended for use as a primer membrane system in direct to substrate applications. When applying Level-Guard™ EM, ensure that the substrate to be coated is clean, dry and free of any dust or contaminants. The substrate should be properly prepared to a CSP-3 or similar profile.

MOISTURE IN CONCRETE

For concrete slabs exhibiting elevated moisture vapor emissions, use Resinwerks Vapor Barrier Epoxy Primer. Please contact your local Resinwerks representative for more information.

DE-GREASING OF CONTAMINATED SUBSTRATES

All substrates shall be properly cleaned and decontaminated. Substrates saturated with grease, oil or animal fats may exhibit adhesion issues during installation and post-cure. Please contact your local resinwerks representative for more information on proper decontamination processes.

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 contact your Resinwerks technical services representative.

MIXING INSTRUCTIONS

- » Prior to mixing, all products should be properly acclimated to the local ambient room temperature of 60°F(15.6°C) -90°F(32.2°C)..
- » Thoroughly agitate both part A and Part B separately prior to mixing. Mix 1-Part A to 1-Part B by volume for two minutes using a slow speed jiffy mixer.

APPLICATION INSTRUCTIONS

- » Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a 1/8" - 1/4" notched squeegee depending on desired thickness. Immediately back-roll with 3/8" (9 mm) nap non-shedding roller to help ensure full coverage and uniform thickness. Use a brush or small roller to cut-in along perimeter walls or any other obstructions. Depending on ambient environmental and slab temperatures, material will be dry to the touch and ready for subsequent coats within approximately 10-hours following application.
- » A second coat should be applied to help ensure complete and thorough coverage. This coat may be broad casted with sand to help ensure inter-coat adhesion with subsequent coats.
- » Contact Resinwerks directly for additional application specifics and recommendations.

LIMITATIONS

- » Do Not Freeze
- » Do not apply over concrete experiencing ASR
- » Do not apply over existing Coatings
- » Do not apply to new slabs < 28-days old
- » Do not apply to concrete < 3500 PSI compression strength
- » Do not apply product when ambient or room temperature is below 60°F or over 90°F or if the relative ambient humidity is above 85%.
- » This product is not recommended for immersion service.
- » DEW POINT: Do not apply when dew point is within 5°F of the ambient temperature.

MAINTENANCE

The long-term performance, appearance, and life expectancy of wear surface products are dependent on an adequate routine maintenance program designed specifically for the installed wear surface. Resinous floor coating systems are nonporous, causing dirt and contaminants to remain on the surface. Recommended maintenance programs consist of frequent and thorough cleaning utilizing a neutral PH cleaner. The frequency of washing will vary depending on floor usage type, traffic and age. Please contact your local Resinwerks technical representative for more information.

NOTES

Thoroughly read all Material Safety Data Sheets prior to use and maintain copies on job-site at all times.

Mock-ups and field test areas are strongly recommended in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction, etc.) to ensure system performance as specified for the intended use, and to determine approval of the coating system.

Variability in job site conditions (including but not limited to surface preparation, sunlight, humidity, dew point, temperature, etc.) during application of Epoxy products may lead to fish-eyes, blistering, pinholes, wrinkling, or out-gassing of air in the concrete and are not product defects.

TECHNICAL ASSISTANCE

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