

LEVEL-GUARD EP™

TECHNICAL DATA SHEET



LEVEL GUARD EP™ is a 100% solids, self-leveling epoxy floor coating designed for demanding commercial and industrial environments. Utilizing an advanced cycloaliphatic hardener, it provides excellent optical clarity, long-term performance, and enhanced resistance to UV and weather exposure. This water-clear epoxy can be pigmented with Resinwerks Universal pigments and is an ideal choice for metallic finishes as well as grout coats over broadcast applications. Long working time, and suitable for large-scale applications.

USES:

- » Economical, top-coat pigmented or clear epoxy
- » Large square footage commercial & industrial floors

ADVANTAGES:

- » Low Odor, 0-VOC
- » Excellent working time
- » Easy to use 2:1 mix ratio
- » Superior leveling qualities

MIX RATIO:

Clear & Pigmented:

- » 2 Parts A to 1 Part B by Volume

PACKAGING & SHELF-LIFE

Level Guard Epoxy is available in the following Units:

- » Clear 3-gallon Kit: 2-gal. part-A + 1-gal. part-B
- » Pre-Pigmented or Clear 15-gallon Kit: Two 5-gal. pails part A + One 5-gal. pail part B

SUGGESTED APPLICATION:

Suitable Substrate(s):

- » Concrete: Apply at 8-20 mil thickness to properly profiled concrete. See page 2 for detailed application instructions.

ANCILLARY PRODUCTS:

Level-Guard Epoxy may be used as a mid or topcoat over other Resinwerks resinous coating product(s).

Post-Add pigments may also be used to pigment LevelGuard EP

MATERIAL COVERAGE	
THICKNESS	APPROXIMATE COVERAGE
8-mils	200 ft ² / gallon (4.8m ² /L)
12 mils	133 ft ² / gallon (3.2m ² /L)
20 mils	80 ft ² / gallon (2.0m ² /L)

GENERAL PRODUCT INFORMATION

Colors: Standard Epoxy Colors or 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
Chemical Resistance	50 MEK Double Rubs	> 90% Gloss Retention
Hardness	ASTMD 2240 Shore D	85
Compressive Strength	ASTMD 695	11,000
Tensile Strength	ASTMD-638	2,800 psi
Abrasion Resistance	ASTMD-4060	40 mg loss
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 EP™ is intended for use as a mid or topcoat and may also be used for direct to concrete application. When applying Level-Guard™ on top of existing coatings or seeded aggregate surfaces, ensure that the previous layer to be coated is clean, dry and free of any dust or contaminants. For applications over existing smooth surfaces, the area to be coated should be to be sanded and tacked (solvent wiped) prior to application to allow for proper inter-coat adhesion.

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)..
- » Carefully and thoroughly mix part A units using a slow speed jiffy mixer for a minimum of 2-3 minutes. For pigmented units, ensure that all colorant is properly dispersed. For larger 15-gallon kits, combine part As at an equal ratio prior to mixing with Part B to ensure uniform color.
- » Thoroughly agitate both part A and Part B separately prior to mixing. Mix 2-parts 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 6-8 hours following application. Contact Resinwerks directly for additional application specifics and recommendations.

LIMITATIONS

- » Do Not Freeze
- » Do not apply over concrete experiencing ASR
- » 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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