WBE 500 EP ™

TECHNICAL DATA SHEET

SKU: 160-_ _ _ _-03

RESINWERKS WB 500 EP™ PRIMER/SEALER IS A TWO-COMPONENT, CATALYZED WATER-BASED EPOXY FOR USE AS A PRIMER, MID OR TOPCOAT FOR CONCRETE, METAL OR WOOD. It provides excellent adhesion and can be used either as a primer or a 2-3 coat finished system over properly prepared concrete. It provides decent weathering as well as good abrasion and chemical resistance when used as a stand-alone system.

USES:

- Primer for Resinous Flooring
- Industrial Flooring
- Steel Primer
- Large square footage

ADVANTAGES:

- Long working time
- Easy to use 1:2 mix ratio
- Good weathering
- Excellent Durability

MIX RATIO:

Pigmented:

- 1 Part A to 2 Parts B by Volume

PACKAGING & SHELF-LIFE

WBE 500 EP™ is available in the following Units:

- **3-gallon Kit:** two gallons part B in a 3.5-gal pail 1-gal. part A
- **15-gallon Kit:** two 5-gal units Part B + 5-gal unit part A

SUGGESTED APPLICATION:

Suitable Substrate(s):

- Concrete: Apply at 2 mil thickness to properly profiled concrete.
- May be used as a primer or a standalone 2 or 3 coat system.
- See page 2 for detailed application instructions.

ANCILLARY PRODUCTS:

May be used in conjunction with other Resinwerks resinous coating producs as a primer.

MATERIAL COVERAGE

THICKNESS	APPROXIMATE COVERAGE
2.0-mils	320 ft² / gallon

GENERAL PRODUCT INFORMATION

Colors:	All standard and custom colors
Solids Volume:	40%
V.O.C.:	1.32 lbs per gallon catalyzed
Pot-life:	1-hour @ 70° F
Cure Schedule:	70° F @ 50% R.H.
	To touch: 6- Hours
	To re-coat: 8-10 Hours Minimum
	18-24 Hours Maximum
	Foot Traffic: 18-Hours
	Heavy Traffic: 72-Hours
Reducer:	Not recommended
Application Temp:	60°F(15.6°C) - 90°F(32.2°C)
Environment:	For Interior Use Only
Shelf Life:	12-months factory sealed

GENERAL PRODUCT PERFORMANCE

TEST TYPE	TEST METHOD	RESULT
Chemical Resistance	50 MEK Double Rubs	> 70% Gloss Retention
Hardness	ASTMD 3363	HB
Abrasion Resistance	ASTMD-4060	40 mg loss
Flexibility 1/4" cylindrical mandrel	ASTMD 522	Pass
Impact Resistance	ASTMD 2794	105 lb. direct
Coefficient of Friction	ASTMD-2047	> 0.6 / pass

WBE 500 EP™

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DATA SHEET

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 grinding or blasting is recommended to achieve an approximate surface profile of ICRI CSP 2-3. Surface to be coated must be completely porous 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. For slabs exhibiting elevated moisture levels in excess of 75% RH, Resinwerks™ Vapor Barrier Epoxy should be substituted as a primer. For more information, please contact your Resinwerks technical representative.

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. For more information, please contact your Resinwerks technical representative. .

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 60ºF(15.6ºC) - 90ºF(32.2ºC)..
- Agitate both part A and Part B separately prior to mixing. Mix 1-part A to 2-Parts B by volume for two minutes using a slow speed jiffy mixer.

APPLICATION INSTRUCTIONS

- Immediately following mixing, apply coating as niformly as possible with a 1/4” nap roller. Avoid excessive cross rolling and back-rolling as that will lead to bubbling. Do not allow the product to puddle. Puddling of excess material will yellow and possibly not cure. 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
- As with all epoxies, product will amber over time
- 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 60ºF or over 90ºF 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 5ºF 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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RESINWERKS™
FLOOR COATING SYSTEMS