RAPID H20 EP™

TECHNICAL DATA SHEET

RAPID H2O-EP™ is a high-build, fast-curing, water-based epoxy coating designed for versatile use across commercial and industrial flooring systems. Available in clear or pigmented formulations, it functions effectively as a primer and broadcast coat fo seamless flake and value-engineered terrazzo flooring applications (Simerrazzo™). Its advanced, VOC-free chemistry offers negligeabe odor during installation, making it an ideal alternative to traditional solvent-based fast-cure coatings.

USES:

- Clear base-coat for flake broadcast systems
- Fast-Cure Primer
- Low-odor commercial and industrial applications

ADVANTAGES:

- Low Odor, 0-VOC
- Fast dry time
- Good color stability
- Easy to use

MIX RATIO:

Clear & Pigmented:

- 2 Parts A to 1 Part B to 1-part Water by Volume

PACKAGING & SHELF-LIFE

Rapid H2O EP™ is available in the following kits:

- 3-gallon Kits (2-gallons part-A + 1-gallon unit of part-B in a box kit. . Additional 1-gallon of water required to be added on-site.

ANCILLARY PRODUCTS:

Rapid H2O EP™ may be used in conjunction with any other Resinwerks resinous coating product(s).

SUGGESTED APPLICATION:

Suitable Substrate(s):

- Concrete: Apply to properly profiled concrete. Please see below for detailed coverage ratios:

MATERIAL **COVERAGE** (after reduction with water)

	WET FILM THICKNESS	DRY FILM THICKNESS	APPROXIMATE COVERAGE
Direct to Concrete	12-16 Mils WFT	6-8 Mils DFT	130 - 160ft² / gallon
Secondary Coat over Primer	8-10 mils WFT	4-5 mils DFT	160-200 ft² / gallon

GENERAL PRODUCT **INFORMATION**

Colors:	Clear & pre-pigmented colors
Solids Volume:	41% Once Reduced with Water
V.O.C.:	0 grams per liter
Pot-life:	40 Minutes @ 70° F
Cure Schedule:	70° F @ 50% R.H.
	To touch: 1-2 Hours
	To re-coat: 1-2 Hours Minimum, 24-Hours Maximum
	Foot Traffic: 2-3-Hours
	Heavy Traffic: 10-12-Hours
Clean-up:	Water
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	ASTM D-2240 Shore D	70
Adhesion/Pull-Off	ASTMD-4541	+500 PSI concrete fracture
Flexibility 1/4" cylindrical mandrel	ASTMD 522	Pass
Impact Resistance	ASTM D 2794	140
Coefficient of Friction	ASTM D-2047	> 0.6 / pass

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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 Shot Blasting is recommended to achieve a surface profile of ICRI CSP 2-4. 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 80% 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 60°F(15.6°C) - 90°F(32.2°C)
- 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. Once mixed, slowly reduce with 1-part water (not provided). Reducing with water is a necessary and required step in the mixing process.

APPLICATION INSTRUCTIONS

- Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a 1/8" - 3/16" 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 2-3 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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RESINWERKS™
FLOOR COATING SYSTEMS