

RAPID H2O PU™

TECHNICAL DATA SHEET



SKU: 230-00GL-01



RESINWERKS RAPID H2O PU™ IS A WATER-BASED POLYURETHANE TOPCOAT THAT IS IDEAL FOR INTERIOR APPLICATIONS REQUIRING LOW-ODOR AND LOW-VOC INSTALLATION. Available in either a clear gloss or satin finish, Rapid H2O PU™ is easily applied as a topcoat over heavy-traffic applications. This unique material provides protection comparable to traditional solvent-based sealers without the associated odor and VOCs.

USES:

- » Educational facilities
- » Animal clinics
- » Direct to concrete sealer
- » Decorative concrete sealer
- » Healthcare

ADVANTAGES:

- » Single-coat application
- » High chemical resistance
- » Low VOC & minimal odor
- » Excellent durability
- » Gloss or satin finish

PACKAGING & MIX RATIO:

Pigmented Stripe: 1.25-gal kit

- » 1.0-Gal Part A and .25-gal Part B
- » Mix 4-parts A to 1-Part B by volume

SUGGESTED APPLICATION:

- » Resinwerks Rapid H2O PU™ provides for a hard, durable finish coat over existing resinous flooring systems. It is resistant to yellowing from UV exposure and provides excellent long-term gloss retention. It is an ideal selection for areas requiring ease of maintenance and the durability to withstand heavy traffic
- » Rapid H2O PU™ may also be applied direct to properly prepared concrete as a single-coat protective sealer.

ANCILLARY PRODUCTS:

Rapid H2O PU™ may be used in conjunction with any Resinwerks products. It is ideally suited as a top-coat.

APPROXIMATE MATERIAL COVERAGE

THICKNESS	COVERAGE
2-Mils DFT	400 SF / Gal
3-mils DFT	260 SF / Gal
4-mils DFT	200 SF / Gal

- » Rapid H2O PU™ should be applied at a minimum thickness of 400 SF / gallon to avoid bubbling and orange-peel.

GENERAL PRODUCT INFORMATION

Finishes:	Clear Gloss and Satin
Solids Volume:	50%
V.O.C.:	50 grams per liter
Pot-life:	45 Minutes @ 70° F
Working Time:	20 Minutes @ 70° F
Cure Schedule:	70° F @ 30% humidity.
To touch:	5-hours
To re-coat:	6-Hours Minimum 24-Hours Maximum
Light Traffic:	12-Hours
Full Traffic:	3-days
Reducer:	Not recommended
Application Temp:	60°F(4.4°C) - 90°F(32.2°C)
Environment:	For Interior or exterior
Shelf Life:	24-months factory sealed

GENERAL PRODUCT PERFORMANCE

TEST TYPE	TEST METHOD	RESULT
Gloss Level (gloss)	ASTM D523	Gloss: 90
Gloss Level (satin)		Satin: 60
Abrasion Resistance	ASTMD 4060	40 mg loss
Adhesion/Pull-Off	ASTMD-4541	+500 PSI concrete fracture
Flexibility 1/4" cylindrical mandrel	ASTMD 522	Pass
Hardness / Shore D	ASTMD 2240	135

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SURFACE PREPARATION

CONCRETE: 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 is recommended to achieve a surface profile of ICRI CSP 2.

EXISTING COATINGS: Rapid H2O PU™ may be applied over existing epoxy, polyaspartic and polyurethane resinous flooring products that are within their specified re-coat window. Existing coatings or coatings outside of the specified re-coat window must be adequately profiled and cleaned as per manufacturer's instructions.

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 degreased appropriately using an enzymatic based concrete degreasing agent. Multiple applications may be required depending on the level of contamination. For more information, please contact your Resinwerks technical 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.
- » With a slow speed drill mixer, mix 4-parts A to 1-part B by volume for approximately 2-minutes.

APPLICATION INSTRUCTIONS

- » Immediately following mixing, pan roll or ribbon and roll with either a 3/8" or 1/4" nap non-shedding roller. Back-roll 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 5-7 hours following application. Contact Resinwerks directly for additional application specifics and recommendations.

LIMITATIONS

- » Do not apply over concrete experiencing ASR
- » Do not apply over Acrylics or MMA Coatings
- » Do not apply over existing coatings / sealers that have not been properly abraded and cleaned.
- » Do not apply to new slabs < 28-days old
- » Do not apply over areas wiped with denatured alcohols
- » Do not apply to concrete < 3500 PSI compression strength
- » Do not apply product when ambient or room temperature is below 50°F (10.0°C) or over 90°F(32.2°C) 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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