TECHNICAL DATA SHEET
RR Series 1000 Epoxy

EPOXY MOISTURE BARRIER

- Product Number: 194-M0-100 (Part A)
- Product Number: 194-U0-100 (Part B)

PRODUCT DESCRIPTION

RIVER RESINS SERIES 1000 is a two-component, 100% solids epoxy moisture mitigation system engineered for professional installers. Designed to control moisture vapor emissions and slab alkalinity, SERIES 1000 helps protect flooring systems from moisture-related failures while delivering consistent, dependable performance.

This VOC-compliant, moisture-tolerant system limits the transmission of moisture, odor, and other contaminants through concrete slabs and provides a superior bond to both dry and damp substrates. RIVER RESINS SERIES 1000 is compatible with most flooring adhesives, cementitious underlayments, industrial coatings, and floor leveling systems.

Its rapid cure profile supports same-day installation schedules and allows direct bonding of a wide range of floor coverings and toppings—helping installers reduce downtime and complete projects with confidence.

BENEFITS

- Typically requires only one coat
- Fast cure with same-day cover capability
- VOC-compliant
- Compatible with most flooring systems
- Allows direct bonding of floor coverings and toppings
- Superior adhesion to dry or damp concrete
- Low permeability (0.06 perm rating)

TYPICAL PROPERTIES

Composition: 100% solids epoxy
Color: Clear
Volume Solids: 100%
Shelf Life: 2 years when stored properly
VOC Content: Zero
Pot Life: 15–25 minutes at 75°F (24°C)
Accepts Foot Traffic: 4–6 hours at 73°F (23°C)
Mix Ratio: 1A : 1B by volume
Yield: 15 mils or 23 mils per gallon (based on RH)
Storage: Store unopened containers between 60°F and 75°F. Protect from extreme heat and freezing.

Typical values shown are based on laboratory testing under controlled conditions. Results may vary. Test methods modified where applicable.

Moisture Readings & Coverage:

- RH or Calcium Chloride ≤ 85% or ≤ 15 lbs / 1000 sq ft:
  Apply at 15 mils – approx. 100 sq ft per gallon
- RH or Calcium Chloride > 85% or > 15 lbs / 1000 sq ft:
  Apply at 23 mils – approx. 70 sq ft per gallon

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PACKAGING
Unit Size:
Ratio: 1:1 by volume
10-gallon kit (Part A – 5 gal / Part B – 5 gal)
100-gallon kit (Part A – 50 gal / Part B – 50 gal)
500-gallon kit (Part (A – 250 gal / Part B – 250 gal)

INSTALLATION STEPS

PREPARATION

Emission Testing:
All areas must be tested per ASTM F-2170 (in-situ RH). Calcium Chloride testing (ASTM F-1869) may only be used when HVAC has been operating 24/7 for at least one week before and during testing and with approval from River Resins Technical Services.

For warranty consideration, complete the warranty application and record test locations, ambient conditions, and results. Perform three tests for the first 1,000 sq ft and one additional test for each additional 1,000 sq ft.

Concrete Surface Requirements:
Concrete must be clean, sound, solid, open-pore, and absorptive. Slabs must be a minimum of 4" thick, with any distinct layer at least 2" thick. Remove repair or leveling layers containing latex or bond-inhibiting materials.

Mechanically prepare the surface to ICRI CSP 3–5. Bead blasting or shot blasting is strongly preferred. Acid etching and chemical adhesive removers are not permitted.

Concrete must readily absorb water within 30 seconds. If water beads or fails to absorb, additional preparation is required. Thorough vacuuming with dust containment filtration is mandatory.

Leveling materials should be installed over RIVER RESINS SERIES 1000 using compatible products.

Core Sampling:

River Resins strongly recommends concrete core samples be taken and lab tested for sealers, oils, adhesives, or other bond breakers. Alkali Silica Reaction and related conditions are not warranted. Penetration and bond are not warranted where core testing is not performed.

Joints:
Expansion joints must remain intact. SERIES 1000 is not warranted against structural movement. To reduce moisture transmission, coat joint walls and bottoms with SERIES 1000. After curing, install appropriate joint covers or elastomeric sealants.

Joints:
For slabs older than six months, control joints and cracks may be filled full depth or to ¾ depth using SERIES 1000. When filling partially, broadcast silica quartz to create a mortar.

MIXING
Use chemical-resistant gloves and eye protection. RIVER RESINS SERIES 1000 is supplied in two parts, pre-measured at the proper mix ratio.

Pour Part A (resin) into a clean mixing container, then add Part B (hardener). Mix mechanically for 4–5 minutes at approximately 300 RPM using an appropriate mixing paddle until homogeneous and streak-free. Avoid high-speed mixing to prevent air entrapment.

DO NOT THIN.

APPLICATION
Substrate and air temperatures must be 55°F (13°C) or higher. Material temperature at mixing should be between 60°F and 75°F.

Required tools:
- 3/16" V-notched squeegee
- Short-nap synthetic roller
- Film thickness gauge (recommended)

Measure the application area to maintain the specified coverage rate. Pour material onto the surface, spread evenly with a squeegee, and back-roll to achieve uniform coverage.

Maintain an average coverage rate of 70 sq ft per gallon. Rough or porous concrete may require heavier application to achieve proper film thickness.

CURING & RESTRICTIONS
- Not a wear surface
- Do not apply over slabs experiencing hydraulic pressure
- Do not apply over existing coatings, sealers, or floor coverings
- Do not apply if slab or air temperature will fall below 50°F (10°C) within 72 hours
- Do not expose to temperatures above 125°F
- Do not apply to concrete with compressive strength below 3,500 PSI
- Do not spray
- Do not freeze
- Protect from direct sunlight, wind, and drafts
- Do not apply to new concrete less than 7 days old
- Do not leave exposed to UV or sunlight
- Not warranted over terrazzo strips

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TRAFFIC & COVERING

SERIES 1000 may accept foot traffic once fully cured. Clean thoroughly before proceeding with subsequent installations. Wet surfaces may be slippery.

Cover within 3 days. Inspect for pinholes or fisheyes prior to covering; grind, clean, and recoat as necessary. A protective leveling layer is recommended.

Most underlayments, toppings, epoxy coatings, terrazzo, and floor coverings should be installed within the recoat window. Many adhesives may be applied directly over SERIES 1000 when designed for non-porous substrates.

CLEAN-UP

Clean tools immediately with xylene. Wash hands with soap or industrial hand cleaner—do not use solvents. Cured material must be removed mechanically.

SAFETY

This product is intended for professional use only. Keep out of reach of children. Wear appropriate PPE including gloves and eye protection. Consult River Resins Technical Services prior to installation if conditions vary.

LIMITATIONS

All slabs must be moisture tested during planning and estimating. If slabs fail moisture requirements, SERIES 1000 should not be installed without appropriate primers. Contact River Resins Technical Services for guidance.

WARRANTY & DISCLAIMER

River Resins warrants that its products are manufactured to strict quality standards. Information provided is accurate to the best of our knowledge but does not constitute a warranty. Users must determine suitability for their application.

No expressed or implied warranties of merchantability or fitness for a particular purpose are made. Liability is limited to product replacement or refund of purchase price. Products contain chemicals that may cause serious injury—read the SDS before use and follow all safety precautions.

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