TECHNICAL DATA SHEET
RR Series 3000 Epoxy

UV Stable Seamless Epoxy Topcoat

- Product Number: 194-M0-103 (Part A)
- Product Number: 194-U0-104 (Part B)

TECHNOLOGY DESCRIPTION

RR SERIES 3000 Epoxy is a UV-stable, versatile, and economical 100% solids epoxy coating, available in clear or pigmented formulas, designed for a wide range of interior applications.

PRODUCT DESCRIPTION

RR SERIES 3000 Epoxy is recommended for warehouses, kitchens, restrooms, and other environments requiring a high-build clear coating or a decorative filled floor with enhanced UV resistance. Key advantages include: extended pot life for ease of use, low odor and economical performance, low viscosity with excellent self-leveling, and a long open recoat window.

Recommended Applications

Residential: Garages | Decorative concrete floors
Commercial: Stadiums | Restaurants | Kitchens | Restrooms | Decorative floors
Institutional: Corridors | Loading docks | Warehouses
Government: Armed forces facilities | Airport hangars | Warehouses

TYPICAL PROPERTIES

- Mixing Ratio (by volume): 2 Parts A : 1 Part B
- Solids Content: 98% ± 2% (ASTM D2369)
- VOC: 0 g/L; compliant with Low-VOC Rule 1113 in all 50 states
- Gloss @ 60°: 85–100 (ASTM D523)
- Mixed Viscosity: 400–500 cps (ASTM D2196)
- Gel Time: 35 minutes (1-gallon mass)
- Tensile Strength: 8,500 psi (ASTM D638)
- Elongation: 5.50% (ASTM D638)
- Compressive Strength: 11,000 psi (ASTM D695)
- Adhesion to Concrete (crosshatch): 5B (ASTM D7294)
- Shore D Hardness: 73–78 (ASTM D2240)
- Abrasion Resistance: 40–45 mg loss, Taber CS-17, 1000 cycles (ASTM D4060)

DRY TIME @ 72°F (10 mils)

- To Touch: 12 hours
- Foot Traffic: 16 hours
- Chemical Resistance: 5 days
- Full Cure: 14 days

The data shown above reflects typical results based on laboratory testing under controlled conditions. Variations from the data shown may result. Test methods are modified where applicable.

CHEMICAL RESISTANCE:

- Methanol: 1
- Bleach: 3
- Mustard: 2
- 10% hydrochloric acid: 1
- 30% hydrochloric acid (Muriatic): 1
- 37% sulfuric acid (Battery acid): 1
- 10% acetic acid: 3
- 50% sodium hydroxide: 1
- Jet fuel (JP-4): 1
- Methyl Ethyl Ketone: 2
- Brake fluid: 1
- Skydrol 500 B: 1

Rating System: 1=No Effect, 2=Slight, 3=Moderate, 4=Severe

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PACKAGING & COVERAGE

Unit Size Kits: Two-component system, 2:1 ratio (2 Parts A : 1 Part B)

- 3-Gallon Kit: (2 × 1-gal Part A) + (1 × 1-gal Part B)
- 15-Gallon Kit: (2 × 5-gal Part A) + (1 × 5-gal Part B)

OPTIONAL ADDITIVES :

- Pigment Pack: 1–2 pints per 3 gallons
- Metallics: 1 pint per 3 gallons

COVERAGE RATES :

- Average Coverage: 80–320 SF/gal (5–20 mils)
- Thin-Film Primer: Up to 800 SF/gal (≈2 mils)
- Coverage varies based on texture, absorption, and application method; rough or porous concrete may require additional material.

SHELF LIFE

Shelf life is 12 months unopened when stored at room temperature (59–77°F / 15–25°C).

PREPARATION

Concrete must be fully cured for at least 30 days prior to coating. Substrates must be structurally sound and free of all contaminants, including but not limited to: waxes, loose paint, dust, dirt, grime, oils, release agents, curing compounds, and surface laitance (weak, non-durable material).

Proper surface preparation requires shot-blasting or diamond grinding to achieve a minimum CSP 2–3 profile (equivalent to 30–80 grit metal-bond diamonds).

Moisture Vapor Emissions Precautions

Interior concrete floors not placed over an effective moisture vapor retarder may be susceptible to moisture vapor transmission, which can cause blistering and premature coating failure. Applicators are responsible for performing calcium chloride testing and relative humidity probe testing to verify acceptable vapor levels prior to installation.

A moisture test must confirm an MVT rate not exceeding 3 lbs/1,000 sq ft/24 hours.

RIVER RESINS can provide moisture-mitigation products and guidance—contact your representative for assistance. RIVER RESINS, its representatives, and sales agents are not responsible for coating failures resulting from undetected or unaddressed moisture vapor emissions.

MIXING

1. Wear gloves and safety glasses during mixing. Only mix the quantity that can be applied within the working time (≈25 minutes at 75°F).
2. Pre-mix Part A for 1 minute.
3. Measure and pour two (2) parts Part A by volume into a clean mixing container.

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MIXING (Continued)

4. (Optional) Add color, metallic pigment, or patch additive.
5. (Optional) For primer applications, add up to 5% xylene.
6. Add one (1) part Part B to the container and mix with a low-speed drill for 3 minutes.
7. Immediately pour the mixed material onto the floor and spread/roll completely within the 25-minute working time.

APPLICATION

- A primer coat is optional for chip-flake, aggregate, and metallic systems; however, Rio recommends applying a thin epoxy primer to minimize concrete outgassing and improve adhesion.
- For RR SERIES 3000 Epoxy direct-to-concrete applications, body coats, and grout coats, use a dip-and-roll method or apply with a notched squeegee followed by back-rolling with a 3/8" nap roller.
- If debris is present or the recoat window has been exceeded, abrade the surface with RIVER RESINS-supplied 100-grit screens or Maroon Very-Fine Conditioning Pads before applying a topcoat or additional coats.

SLIP RESISTANCE

- RIVER RESINS recommends traction additives for all flooring systems that may be exposed to wet, oily, or greasy conditions.
- It is the responsibility of the contractor and end user to select a flooring system that meets current safety standards.
- RIVER RESINS does not guarantee slip resistance longevity and is not responsible for injuries resulting from slip-and-fall accidents.

MAINTENANCE INSTRUCTIONS

- After installation of RR SERIES 3000 Epoxy, routine sweeping, mopping, washing, or mechanical scrubbing is recommended.
- Plain water is adequate for most environments; use pH-neutral cleaners when necessary.
- The installer should provide maintenance guidance to the owner.
- If floors become slippery due to animal fats, oils, grease, or soap film, clean thoroughly and rinse well.

DISPOSAL

- Dispose of all materials in accordance with all Federal, State, and Local regulations.

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