TECHNICAL DATA SHEET

RR Series 4000 Polyaspartic Ultra Fast Cure Top Coat

Part Number: 194-3P-444N

Product Description

River Resins® Series 8000 Polyaspartic Topcoat is a two-component, high-solids, clear polyaspartic coating engineered for excellent chemical resistance, UV stability, abrasion resistance, and hardness. Designed with a user-friendly 1:1 mix ratio and extended working time compared to conventional polyaspartics, this product is intended as a high-gloss protective topcoat over decorative broadcast systems.

Recommended Uses

- Decorative paint chip systems
- Colored quartz broadcast systems
- Garage floors
- Commercial kitchens and restrooms
- Warehouses and laboratories
- Cafeterias and retail environments
- Residential, commercial, and industrial flooring applications

Physical Properties

Property Typical Value

- Solids by Weight 84% (±3%)
- Solids by Volume 83% (±3%)
- VOC Content < 95 g/L
- Odor Mild solvent
- Finish High Gloss (>80 @ 60°)
- Color Clear (Gardner 1–2); pigment packs available
- Recommended Film Thickness 5–12 mils (wet)
- Coverage 133–320 sq ft/gal (typical)
- Viscosity (Mixed) < 500 cps
- Hardness Shore D 55–60

Physical properties are typical values and not specifications.

Mechanical Properties

Test Result Standard

- Abrasion Resistance 15 mg loss ASTM D4060 (CS-17, 1000 g, 500 cycles)
- Tensile Strength 3,800 psi ASTM D638
- Compressive Strength 11,500 psi ASTM D695
- Ultimate Elongation 2.4% —

Packaging

- 2-gallon kits
- 10-gallon kits
- 100-gallon kits

(Net contents approximate)

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Mix Ratio

By Volume: 1 : 1
- Pre-measured kits supplied. Mix only quantities that can be applied within the working time.

Shelf Life
- 6 months in unopened containers when stored at recommended conditions

Cure Schedule (70°F / 21°C, 70% RH)

Stage Time
- Pot Life (150 g mass) > 2 hours (to gel)
- Usable Working Time 10–20 minutes (typical)
- Tack Free / Dry to Touch 4–8 hours
- Recoat Window 6–9 hours
- Light Foot Traffic 24 hours
- Full Cure (Heavy Traffic) 2–7 days

Cure time and working time are affected by temperature, humidity, and batch size.

Application Conditions
- Application Temperature: 50–90°F
- Relative Humidity: Below 85%
- Substrate temperature must be at least 5°F above dew point

Surface Preparation
Concrete substrates must be clean, sound, and free of laitance, oil, and contaminants.
Recommended preparation is shot blasting to achieve a suitable profile.
When applying directly to concrete, moisture vapor emission rate must be below 3 lb/24 hr/1000 ft² per ASTM F1869. All new concrete must cure a minimum of 30 days prior to application.

Priming
A suitable epoxy broadcast base system is recommended.
Adhesion testing and test patches should be performed prior to full application to confirm suitability for the service environment.

Application Methods
- Roller
- Brush
- Serrated squeegee

Series 8000 is intended as the final topcoat to seal broadcast systems. Use an air-release roller when necessary.

Recoat & Topcoating
This product may be applied in multiple coats to increase build but is designed as a final topcoat.
Recoating may proceed once the coating has tacked off.
Non-slip aggregates are recommended for pedestrian surfaces.

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Chemical Resistance

Reagent Rating
Xylene: C
1,1,1-Trichloroethane: B
MEK: A
Methanol: B
Ethyl Alcohol: B
Skydrol: C
50% Sodium Hydroxide: E
10% Sulfuric Acid: C
10% HCl (aq): C
5% Acetic Acid: C

Rating Key:
A = Not recommended
B = 2-hour splash/spill
C = 8-hour splash/spill
D = 72-hour immersion
E = Long-term immersion

Topcoat
None required.

Limitations
Proper ventilation is required during application
Color clarity may vary from batch to batch
High humidity may reduce working time and accelerate cure
Excessive film thickness may cause surface defects or bubbling
Do not expose to water until fully cured
Always apply a test patch prior to full installation

Cleanup
Use xylol

Safety & Regulatory
Refer to the Safety Data Sheet (SDS) for handling, hazard, and disposal information.
Use appropriate personal protective equipment during mixing and application.

Warranty & Disclaimer
River Resins® products are manufactured under strict quality control standards.
No warranties are expressed or implied beyond replacement of defective material or refund of purchase price.
User is responsible for determining product suitability for the intended application.

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