



# RIO-COAT UPA 85

Polyaspartic Topcoat

## PRODUCT DESCRIPTION

RIOCOAT UPA 85 is a unique, economical, low-viscosity, fast-drying polyaspartic/polyurea that stays clear and will not blush or haze at high film thicknesses (15 mils).

RIO-COAT UPA 85 is frequently used as topcoats in abusive environments such as garages, warehouses and production areas. RIO-COAT UPA 85 may be used as a clear primer.

RIO-COAT UPA 85 may also be pigmented with Pigment Packs to achieve a solid colored primer, body-coat, or topcoat.

RIO-COAT UPA 85 has excellent bond strength, 100% UV resistance, chemical resistance and gloss retention.

## APPLICATIONS

- Commercial - stadiums, restaurants, kitchens, restrooms
- Institutional - corridors, loading docks, storage facilities
- Government - armed Forces bases, parking garages
- Residential - garages and decorative concrete floors
- Industrial - warehousing, production areas, mechanic shops, etc.

## TYPICAL PROPERTIES

Solids content:	85% +2%	ASTM D2369
VOC Content:	157 g/l	calculated
Gloss @ 85° angle	95	ASTM D523
Mixed viscosity:	120 cps	ASTM 2196
Pot Life (double viscosity):	20 minutes	ASTM 2196
Dry to touch:	30 minutes	ASTM 2196
Re-coat:	2-6 hours	
Water- resistant:	2 hours	
Light foot traffic:	2 hours	
Chemical/tire resistant:	7 days	
Full cure:	7 days	
Taber Abrasion (CS-17 Wheel, 1000 cycles):	36 mg	
Pencil Hardness:	4H	ASTM D4060
Cross-Hatch Adhesion:	5B	ASTM D3363 ASTM D3359

*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.*

## BENEFITS

- Excellent UV stability
- Fast dry time
- Excellent chemical and tire-stain resistance
- Great leveling properties
- Tintable with UltraColor Pigment Packs

## PACKAGING & COVERAGE

Unit Size Kits: 1:1 by volume

- 2 Gal Kit  
(Part A-Resin (1 Gal), Part B-Hardener (1 Gal))
- 10 Gal Kit  
(Part A-Resin (5 Gal), Part B-Hardener (5 Gal))

80-800 SF per working gallon

Coverage rates may vary due to porosity, density, texture and application methods.

## INSTALLATION STEPS

### Preparation

**Direct to concrete preparation:** Concrete shall be lightly shotblasted or diamond ground with 30-80 grit metal bond diamonds to achieve a minimum of CSP 2 - CSP 3 concrete surface profile. Concrete must be cured prior to coating (poured and aged at a material temp of at least 75°F for at least 30 days), structurally sound, and free of contaminants including but not limited to waxes, loose paint, dust, dirt, grime, oils, release agents, curing compounds, and any surface laitance (a layer of weak and nondurable material). If prepared concrete is suspected to be contaminated with any of these materials, test for their presence by spraying a thin coat of water onto the concrete. If water beads on the surface, contamination is likely present and the concrete should be scrubbed with a degreaser or mild detergent, rinsed with clean water, and allowed to thoroughly dry prior to coating.

**Topcoat preparation:** If applying RIO-COAT UPA 85 as a topcoat over freshly applied RIO coatings, apply within the stated recoat window or abrade with 80-150 grit screens prior to application. If applying RIO-COAT UPA 85 as a second coat over RIO-COAT UPA 85, it is always recommended to screen or abrade the surface between coats. If RIOCOAT UPA 85 is being applied over an old or existing resinous flooring, mechanically abrade the surface by grinding with 70-100 grit metal bond diamonds or scrub with 60 grit sand screens.

### Mixing

Ensure that Parts A and B are at room temperature (59-77°F, 15-25°C) prior to mixing

1. Wear rubber gloves and safety glasses when mixing. Mix quantity that will be used within working time (20 minutes at 75°F)
2. Pre-mix part A for 1 minute.
3. By volume, pour out one (1) part A into a separate mixing container.
4. Optional – Add color and mix for 1 minute or uniform in color (either 1 or 2 x pints per 3 mixed gallons of RIO-COAT UPA 85 –depending on system).
5. Add one (1) part B to the mixing container and drill-mix at low speed for 3 minutes.
6. Complete spreading and rolling within 20 minutes.

### Application

Apply RIO-COAT UPA 85 using a flat or notched squeegee and back-roll the spread material immediately with a 3/8" nap or shorter roll-er. The "pour and roll" method may also be used. To avoid roller lines or tracking, roll quickly from end to end. Do not exceed 20 minutes of pot life. Use joints or saw cuts as natural breaks to divide sections of the floor. RIO-COAT UPA 85 will set-up, dry and cure faster in high humidity environments. Never apply to a wet or damp substrate. Film thicknesses greater than 15 mils may entrap solvent resulting in entrapped air / CO2 bubbles. If allowed to puddle, CO2 bubbles will appear as white or frosted areas. Contact your RIO representative if a film-build higher than 15 mils is desired.

### Maintenance

After completing the application of RIO-COAT UPA 85, routine sweeping, mopping, washing and mechanical scrubbing is recommended. Cleaning with plain water is suitable in most environments. Use pH neutral cleaners if necessary. The installer should provide the owner with maintenance instructions. Clean and rinse thoroughly if floors become slippery due to animal fats, oil, grease, or soap film.

### Slip Resistance

RIO recommends the use of slip-resistant aggregates such as RIO ULTRA Grip in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor's and end users' responsibility to provide a flooring system that meets current safety standards. RIO makes no claims of longevity of SCOF or DCOF results. RIO and any representatives or sales agents will not be responsible for injury incurred in a slip and fall accident.