



CITADEL® UL 80

DESCRIPTION AND USES

Citadel® UL 80 is a two component polyaspartic floor coating that provides low odor, excellent UV, chemical, and abrasion resistance plus a 24 hour return to service time. UL 80 is a versatile coating primarily used as top coat over broadcast systems. Smooth or solid color floors may leave an orange peel finish. UL 80 is sold clear, but may be pigmented using 844 universal colorant.

FEATURES AND BENEFITS

- Fast return to service time, Low Odor and can accept vehicle traffic in 24 hours
- UV Stable, excellent chemical, abrasion and heat resistance
- Can be applied at temperatures between 30°F to 90°F
- Available in gloss finish

PRODUCT

SKU DESCRIPTION (Clear)

355843	4 Gallon Kit
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PACKAGING

Part A	Full 2 gallon container
Part B	Full 2 gallon container

PRODUCT APPLICATION

READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING PROJECT

SURFACE PREPARATION

The concrete surface must be free of all dirt, grease, oil, fats, and other contamination. Remove surface contamination by cleaning with Krud Kutter® Cleaner Degreaser, detergent, or other suitable cleaner. Rinse thoroughly with clean, fresh water and allowed to dry.

NEW, UNCOATED CONCRETE: New concrete must be allowed to cure for a minimum of 30 days before application. In addition to the aforementioned cleaning, the concrete must be further prepared by mechanical grinding or acid etch to remove all laitance and produce a suitable surface profile.

PREVIOUSLY COATED CONCRETE: Previously coated concrete must be in good sound condition with the existing coating tightly adhering to the concrete. In addition to the aforementioned cleaning the existing coating must be sanded to dull the finish and produce a slight surface profile. Remove all sanding dust by vacuum.

MIXING

Both components should be pre conditioned to a minimum of 50° F (10°C) prior to use. Thoroughly mix each component separately before combining. If only using part of a container, be sure to use a separate mixer blade for each component to avoid cross contamination.

PRODUCT APPLICATION (cont.)

MIXING (cont.)

Pour the Part A and Part B components together in a clean, dry five gallon container and power mix for a minimum of two minutes. Do not entrain air into the mixing. Do not mix more material than can be applied in 20-25 minutes.

If using less than a full container, combine the components using a mixing ratio of 1:1 by volume, Part A (Base) to Part B (Activator).

TINTING

If tinting, add 12% by volume of the selected color Polyurea Universal Tint (1 quart of tint per 2 gallons of activated material). Power mix until a uniform color is achieved.

EQUIPMENT RECOMMENDATIONS

ROLLER: Use a high quality ¾ inch lint-free roller with a phenolic core.

BRUSH: Use a disposable natural fiber chip brush, 2-4 inch wide for cut in work.

APPLICATION

Apply only when air, material and floor temperatures are between 30-90°F (-1-32°C). Do not apply in direct sunlight or when temperature is rising. Colder environmental conditions can slow the cure of UL 80. For application outside of this temperature range, please contact Rust-Oleum Technical Service.

Immediately after mixing, pour the material onto the floor in a long, 8 to 12 inch wide stripe.

NOTE: Do not scrape the sides or bottom of the container. Use only the material that flows naturally out of the container. Also, do not turn the container upside down and leave on the floor to drain. Doing so may result with unactivated material from the sidewall of the container being applied. This will cause soft spots in the coating.

Use a rubber squeegee to spread the material out and achieve the 100-400 sq.ft./gal. spread rate. Back roll the material smooth using a 3/8" lint free roller with a phenolic core to smooth out the finish.

NOTE: Coverage rate can vary depending on the texture and porosity of the concrete.

THINNING: Not normally required.

CLEAN-UP: Acetone.

PERFORMANCE CHARACTERISTICS

Tensile Strength (ASTM D412)	6,000
Compressive Strength (ASTM D695)	9,400
Elongation (ASTM D412)	100
Hardness, Shore D (ASTM D2240)	78
Gloss (ASTM D523) @ 60°	90+
Abrasion Resistance (ASTM D4060)	
CS-17 Wheel, 1,000 g load, 500 cycles	28



CITADEL[®] UL 80

PHYSICAL PROPERTIES

		UL 80
Resin Type		Polyaspartic Polyurea
Weight	Per Gallon	9.0 lbs.
	Per Liter	1.1 kg/l
Solids by Volume		80%
Volatile Organic Compounds		<250 g/l**
Recommended Dry Film Thickness (DFT) Per Coat		6-12 mils
Wet Film Thickness (WFT) to Achieve DFT (unthinned material)		8-16 mils
Mixing Ratio		1:1 (Part A to Part B)
Induction Time		None required
Pot Life		30-35 minutes
Practical Coverage		100-200 sq.ft./gal. Coverage rate can vary depending on the texture and porosity of the concrete
Dry Times @ 72°F and 50% Relative Humidity†	Tack Free	2-4 hours
	Dry Hard	24 hours for vehicle traffic
	Recoat	2-12 hours*
Shelf Life		2 years
Safety Information		See SDS

Calculated values are shown and may vary slightly from the actual manufactured material.

† Extreme cold temperatures may slow cure times.

* If 12 hour recoat time has elapsed, the coating must be properly abraded and cleaned prior to recoating.

** Calculated Applied VOC

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