



CITADEL® POLYCURAMINE™

DESCRIPTION AND USES

Polycuramine™ is a two component, 96% solids, cyclo-aliphatic hybrid coating system that has exceptional adhesion properties to concrete substrates. Due to its unique chemistry, this coating exhibits great flexibility, working times and self-leveling properties while offering great chemical resistance as well. Low odor makes it a great choice for both interior and exterior applications.

PRODUCT

DESCRIPTION (High Gloss)	SKU
3 Gallon Kit	10232B

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 70° F (21°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. Pour the Part A and Part B components together in a clean, dry five gallon container and power mix at 500-700 rpm 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 2:1 by volume, Part A to Part B.

PRODUCT APPLICATION (cont.)

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 40-90°F (4.5-32°C) and surface temperature is at least 5°F (3°C) above the dew point. The relative humidity of the air should not be greater than 85%. Do not apply in direct sunlight or when temperature is rising. Colder environmental conditions can slow the cure of Polycuramine. Be sure the substrate is completely dry. Variability in these conditions during application may lead to surface defects. 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. Avoid pouring material over control joints or expansion joints.

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 90-100 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: Methyl Ethyl Ketone (MEK).



CITADEL® POLYCURAMINE™

CHEMICAL RESISTANCE

CHEMICAL	RESULT
Acetic Acid 100%	R
Acetone	R
Ammonium Hydroxide 50%	RC
Benzene	RC
Brake Fluid	RC
Brine saturated H2O	R
Chlorinated H2O	R
Clorox (10%) H2O	R
Diesel fuel	R
Gasoline	R
Gasoline/5% MTBE	R
Gasoline/5% Methanol	R
Hydrochloric Acid 20%	R
Hydrofluoric Acid 10%	RC
Hydraulic fluid (oil)	RC
Isopropyl Alcohol	R
Jet Fuel (JP-4)	R
Lactic Acid	RC
MEK	RC
Methanol	R
Methylene Chloride	C
Mineral Spirits	R
Motor Oil	R
MTBE	C
Muriatic Acid 10%	R
NaCl/H2O 10%	R
Nitric Acid 20%	RC
Phosphoric Acid 10%	RC
Phosphoric Acid 50%	NR
Potassium Hydroxide 10%	R
Potassium Hydroxide 20%	R, Dis
Propylene Carbonate	R
Skydrol	C
Sodium Hydroxide 25%	R
Sodium Hydroxide 50%	R
Sodium Hypchlorite 10%	R
Sodium Bicarbonate	R
Stearic Acid	R
Sugar/H2O	R
Sulfuric Acid 10%	R
Sulfuric Acid >50%	R
Toluene	R
1, 1,1-Trichlorethane	C
Trisodium Phosphate	R
Vinegar/H2O 5%	R
H2O	R
H@O 174 days @ 82°C	R
Xylene	R

Chemical Resistance: Chart Key

R=recommended/little or no visible damage
 RC=recommended conditional/some effect, swelling or discoloration
 C=Conditional/Cracking-wash within one hour of spillage to avoid affects
 NR=Not recommended
 Dis=discolorative

PERFORMANCE CHARACTERISTICS

FILM HARDNESS, SHORE D

METHOD: ASTM D2240
 RESULT: 90

GLOSS

METHOD: ASTM D523 @ 60°
 RESULT: 90

ABRASION RESISTANCE

METHOD: ASTM 4060, CS 17, 1,000 g load, 500 Cycles
 RESULT: 40 mg.



CITADEL® POLYCURAMINE™

PHYSICAL PROPERTIES

		POLYCURAMINE
Resin Type		Cycloaliphatic Hybrid
Weight	Per Gallon	9.3 lbs.
	Per Liter	1.1 kg/l
Solids by Volume		96%
Volatile Organic Compounds		<10 g/l**
Mixing Ratio		2:1 (Part A to Part B)
Induction Time		None required
Pot Life		20-25 minutes
Practical Coverage		100-300 sq.ft./gal. Coverage rate can vary depending on the texture and porosity of the concrete
Dry Times @ 70-80°F (21-27°C) and 50% Relative Humidity†	Recoat	12 hours - 7day*s
	Light Traffic	12-16 hours
	Full Traffic	24 hours*
Shelf Life		24 months
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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