



CITADEL

POLY-4 XT

DESCRIPTION AND USES

Citadel® Poly-4 XT is a ready to use, easy to install high performance gloss topcoat that provides industry leading durability and return to service performance. Ideal for decorative and functional flooring applications that require protection from UV rays, abrasion, scratches, and many of today's harshest chemicals.

Poly-4 XT is tough and durable, at least 2X's more scratch and mar resistance when compared to moisture cured urethanes and polyaspartics.

PRODUCT FEATURES AND BENEFITS

- Quick return to service
- Provides a high gloss, smooth finish over a wide range variety of substrates and coatings
- Single component, high solids
- Proprietary aliphatic chemistry provides excellent protection from UV rays, harsh chemicals, and abrasion
- Ideal for commercial, institutional, and industrial applications

PRODUCT

SKU	DESCRIPTION (1-Gallon)
360143	Clear High Gloss

PRODUCT APPLICATION

READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING PROJECT

CONCRETE REPAIR

All spalls and cracks must be chased out and repaired to ICRI standards using an appropriate patching material.

SURFACE PREPARATION

The concrete surface must be free of all dirt, grease, oil, fats, and other contamination. Remove surface contamination by cleaning with Rust-Oleum® Professional Cleaner Degreaser, detergent, or other suitable cleaner. Rinse thoroughly with clean, fresh water and allow to dry. Note: The substrate must be completely dry prior to application of Poly-4 XT. Moisture Cure coatings are extremely sensitive to moisture which can affect proper curing of the coating.

NEW CONCRETE: New concrete should be allowed to cure for a minimum of 30 days. The concrete must be structurally sound, dry, and free of grease, oils, dust, curing compounds and other coatings or contaminants. Surface laitance must be removed. Rising moisture vapor emission rate must not exceed 3 lb. per 1000 sq. ft. over a 24-hour period as measured by calcium chloride test method ASTM F-1869.

PRODUCT APPLICATION (cont.)

SURFACE PREPARATION (cont.)

NEW CONCRETE (cont.): The preferred method of surface preparation is to mechanically abrade the floor by diamond grinding to achieve a final #80–#120 grit finish, reference profile CSP-2 according to ICRI.

PREVIOUSLY COATED: Previously coated surfaces must be sound and in good condition. Smooth, hard, or glossy finishes should be scarified by sanding or sweep blasting to create a surface profile. Poly-4 XT is compatible with most coatings, but a test patch is suggested. Concrete must be visibly dry at time of application.

MIXING EQUIPMENT

Low speed drill and spiral mixing wand.

Important: Hand mixing will produce inconsistent results and is not an approved method.

APPLICATION

Apply only when air, material and floor temperatures are between 50-90°F (10-32°C) and between 20-85% relative humidity. Do not apply in direct sunlight or when temperature is rising. Be sure the substrate is completely dry. Pour out only the amount of material to be used into a roller pan. Immediately cover the can if not using the entire gallon, product is extremely moisture sensitive. Do not return unused material from the roller pan to the can or mixing container. Use a 1/4" inch, lint free roller with a phenolic core to roll out the coating. Begin with rolling out a W or M pattern, then cross roll to fill in and smooth out the coating. Recoating is not recommended.

THINNING

None required.

CLEANUP

Clean tools and application equipment immediately after use with acetone or MEK. Clean spills or drips while still wet with acetone or MEK. Dried product will require mechanical abrasion for removal.

LIMITATIONS

This product is not designed for immersion or any use where moisture can reach the underside of the coating. Do not apply to floors that have been treated with curing compounds (unless completely removed) or substrates that are less than 30 days old. Humidity levels drastically alter drying times.

	TECHNICAL DATA	CDL-09
 CITADEL	POLY-4 XT	

PHYSICAL PROPERTIES

		POLY-4 XT
Resin Type		Polymethoxysiloxane
Solvents		Xylene, Glycol Ether Acetate
Weight	Per Gallon	8.4 lbs.
	Per Liter	1.1 kg
Solids	By Weight	90%
	By Volume	90%
Volatile Organic Compounds		224 g/L
Recommended Wet Film Thickness (WFT) Per Coat		2-4 mils
Practical Coverage Rate (assumes 15% material loss)		340-660 sq. ft./gal. Coverage rate can vary depending on the texture and porosity of the concrete
Dry Times at 77°F (25°C) and 50% Relative Humidity*	Touch	1 hour*
	Light Use	4-6 hours*
	Normal Use	18 hours*
	Full Cure	24 hours*
Shelf Life		2 years, unopened container
Flash Point		109°F (43°C)
Safety Information		For additional information, see SDS

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

*Humidity levels drastically alter drying times

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