



CITADEL

ULTRA-HYDRO STOP H2O PRIMER

DESCRIPTION AND USES

Citadel® Ultra-Hydro Stop H2O Primer is a three component, water-based, 50% solids, epoxy primer used to remedy concrete floors with high moisture levels before the application of finish coatings. Capable of holding back up to 12 lbs. of MVT (Moisture Vapor Transmission) with a two-coat application, this primer has excellent adhesion to moisture laden concrete slabs. Ultra-Hydro Stop H2O Primer can be applied to concrete as early as 48 hours after placement, reducing job-site downtime and delays in production.

PRODUCT

SKU	DESCRIPTION (Clear)
10302	1.5 Gallon Kit

NOTE: Combined components and the required additional water will yield 1½ gallons.

RECOMMENDED TOPCOAT

Any epoxy, polyurethane, or polyurea floor coating.

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 Rust-Oleum® Professional Cleaner Degreaser, or other suitable cleaner. Rinse thoroughly with clean, fresh water. Squeegee away excess rinse water. The Ultra-Hydro Stop H2O Primer can be applied to damp concrete, but not a wet surface. Place your hand flat on the surface. If any water is transferred to your hand, the surface is considered to be wet.

NEW, UNCOATED CONCRETE: In addition to the aforementioned cleaning, the concrete must also be free of any sealers or silicate treatments that may have been applied after finishing of the concrete. Removal of sealers or silicate treatments will require cleaning with mechanical abrasion. Etch concrete with 108 Cleaning & Etching Solution. Rinse thoroughly and immediately. Very dense concrete may require abrasive blasting or diamond grinding to create surface profile.

OLD OR PREVIOUSLY COATED CONCRETE: In addition to the aforementioned cleaning the concrete must be in good, sound condition. All previous coating must be removed by mechanical abrasion.

MIXING

Hand mixing is not adequate. The components must be combined using a power mixer. Mix at 500-750 rpm. Do not over mix or use higher speeds. This can introduce air into the coating causing small bubbles in the finish. Combine the entire contents of Part B into the two-gallon container of Part A and mix for 2-3 minutes.

PRODUCT APPLICATION (cont.)

MIXING (cont.)

Continue power mixing and slowly add 64 fl. oz. of clean fresh water and continue to mix until a uniform mixture is achieved. Material is ready to use. No induction time is required.

NOTE: There is a fill line marked on the two-gallon container which indicates the level of the total activated material once the 64 fl. oz. of water has been added. **DO NOT** try to mix a partial kit. The components are premeasured and rationed for the additional water.

EQUIPMENT RECOMMENDATIONS

SQUEEGEE: Use a high quality 1/8" V notched rubber squeegee.

ROLLER: Use a high quality 3/8" lint-free roller with a phenolic core.

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

APPLICATION

Apply only when air, material and floor temperatures are between 60-80°F (15.5-27°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 Ultra-Hydro Stop H2O Primer. 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 your Citadel Representative or Rust-Oleum Technical Service. One activated gallon of Ultra-Hydro Stop H2O Primer will cover 250 square feet. The full 1.5-gallon kit will cover 375 square feet. This spread rate must be honored to ensure the primer properly performs.

Once mixed, pour the primer onto the floor in a long 8-12-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 1/8-inch V notched squeegee to spread the material out and achieve the 250 sq. ft./ gal spread rate. Roll out the material smooth using a 3/8" lint free roller with a phenolic core. Ultra-Hydro Stop H2O Primer should be allowed to flow down into saw cuts, but not allowed to fill the saw cut. Do not allow the material to pool.

One coat of Ultra-Hydro Stop H2O Primer will block up to 6 lbs. of MVT. Two coats will block up to 12 lbs.

THINNING: Not required.

CLEAN-UP: Acetone.

EPOXY	TECHNICAL DATA	CDL-18
 CITADEL	ULTRA-HYDRO STOP H2O PRIMER	

PHYSICAL PROPERTIES

		ULTRA-HYDRO STOP H2O PRIMER
Resin Type		Mannich Base Adduct Converted Epoxy
Weight*	Per Gallon	8.9 lbs.
	Per Liter	1.1 kg/l
Solids by Volume*		50%
Volatile Organic Compounds*		0 g/l
Induction Time		None required
Working Time		1 hour at 77°F (25°C)
Pot Life		None. Pour out all material after mixing
Recommended Wet Film Thickness (WFT) Per Coat		6 mils
Recommended Dry Film Thickness (DFT) Per Coat		3 mils
Practical Coverage		250 sq. ft./gal. Coverage rate can vary depending on the texture and porosity of the concrete
Recoat/Topcoat		5-24 hours. Scuff sanding is required if greater than 24 hours
Shelf Life		5 years
Safety Information		For additional information see SDS

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

*Activated material

†Immediately following mixing, pour the entire material onto the floor in a long, thin stripe. Do not try to work out of a pan or container, as the build-up of heat could shorten the pot life and create a hazardous condition.

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