



COUNTERFORM

CONCRETE COUNTERTOP SOLUTIONS

Ultra Z Poxy

Product Description

Ultra Z Poxy is a solvent-less, two component epoxy coating system. It exhibits a crystal clear high gloss appearance and offers superior stain and chemical resistance. The durability makes this sealer ideal for high-traffic areas both on floors and countertops and may be used over numerous substrates. When applying over concrete, a darkening “wet look” is to be expected. Both solid and metallic powdered pigments may be added to color the epoxy. For indoor use only.

Features and Benefits

- Dense surface resistant to bacteria and moisture and easy to clean.
- May apply several layers on itself with excellent adhesion.
- Contains no solvent with a very low VOC content (VOC = 75.4 g/liters), allowing for interior application without harmful odors.
- Excellent adhesive properties, allowing application on other firm and hard coatings, as well as a good bond to the substrate.

Technical Information

Color.....Part A: Clear, Part B: Clear to Amber

Recommended Thickness

Primer Coat.....8 MILS (200 sq. ft. / gal)

Finish Coat.....16 MILS (100 sq. ft. / gal)

Max Recommended.....80 MILS (20 sq. ft. / gal)

Heat Resistance500°F

Solids % Weight (Federal Spec. TTP-141B) 100%

Shelf Life - 12 months in original unopened package. Store in temperature controlled environment away from direct sunlight.

Flammability - Class I (not considered flammable, flash point > 200°F)

VOC..... 75.4 grams/liter

Mix Ratio..... 2 parts A to 1 part B

Coverage varies depending on thickness

Pot Life 45 minutes @ 72°F

Thinner Recommended.....Xylene

Traction Resistance (PSI), ATSM D638.....6500

Compressive Strength (PSI), ATSM D695.....14000

Elongation (%), ATSM D638.....6.7

Mold Growth, ATSM D3273.....10 (highest resistance)

Fungi Growth, ATSM G21.....0 (no growth)

Coverage

Thickness	Distance
Primer Coat - 8 MILS	200 sq. ft. / gal
Top Coat (Floors) - 16 MILS	100 sq. ft. / gal
Top Coat (Countertop) - 40 MILS	40 sq. ft. / gal
Max Thickness - 80 MILS	20 sq. ft. / gal

Properties @ 72°F and 50% R.H.

Density (KG/L)	Part A 1.05 - 1.10	Part B 0.9 - 1.0		
Recoat Time	Substrate Temperature	Minimum	Maximum	
	50°F	24 Hours	72 Hours	
Applying over primer coat (8 MILS)	68°F	12 Hours	48 Hours	
	86°F	6 Hours	24 Hours	
Applying over top coat (16 MILS)	50°F	30 Hours	72 Hours	
	68°F	24 Hours	48 Hours	
	86°F	16 Hours	24 Hours	
Curing Detail	Substrate Temperature	Foot Traffic	Light Traffic	Full Cure
	50°F	30 Hours	5 Days	10 Days
	68°F	24 Hours	3 Days	7 Days
	86°F	16 Hours	2 Days	5 Days
**Times are approximate and will be affected by changing ambient conditions, especially in temperature and relative humidity.				
Bond Resistance (PSI), ATSM D4541	> 300 (Substrate Rupture)			
Permiability (%), ATSM D570	0.3%			
Hardness (Shore D), ATSM D2240	85-90			
Abrasive Resistance. ATSM D4060 (CS17 / 1000 Cycles / 1000G)	0.10 G			
Viscosity @ 77°F	Part A 1200-1400	Part B 150-350	Mix 600-800	

Instructions

Surface Prep (Countertops): Ultra Z Poxly can be applied to nearly any substrate but proper steps should be taken to promote adhesion. In most cases, this will mean either sanding, grinding, sand blasting or acid etching to produce a clean and rough surface. **CONCRETE:** Should be allowed to cure for a minimum of 14 days. If previously sealed or coated, all coatings should be fully removed either through mechanical or chemical methods. Concrete must be sanded no finer than 60 grit to remove all surface laitance (a layer of weak and nondurable cement and fine aggregates, brought by excess bleeding or by premature/ improper finishing). Next, thoroughly rinse concrete to remove all dust/ debris and allow to fully dry. **WOOD:** Should be sanded no smoother than 60 grit. All previous coatings, wax or oils should be removed either through mechanical or chemical methods. Surface should be 100% clean, dry and free of any dust/ debris. **OTHER:** Please contact us for more information.

Surface Prep (Floors): Ultra Z Poxly can be used over concrete floors in a solid color, metallic, or flake system. New concrete should be cured for at least 28 days. Old concrete should be cleaned to remove any previous coatings, sealers, oils, and/ or other surface contaminants. All concrete should be diamond ground to 30 grit or coarser and properly cleaned to remove all dust and debris.

Instructions (continued)

Mixing: Materials should be pre-conditioned to a minimum of 50°F prior to use. Thoroughly mix each component separately. Pour component B into component A using the proper mixing ratio of 2 A:1 B by volume. Mix both components for at least 2 minutes using a drill with paint or epoxy mixing paddle at low revolution (300 to 450 rpm) to reduce trapping of air. Any pigment or metallic powder can be added at this time. Scrape bottom and walls of container several times to ensure a homogeneous mix. Only prepare quantity that may be applied during 40 - 50 minute pot life (at 70°F). Surface and environment temperature will affect cure time.

Application: A primer coat of this product is recommended (especially over porous substrates such as concrete or wood) to prevent off-gassing and promote adhesion. After mixing, pour epoxy onto surface and spread with a rubber trowel or gauged rubber rake. Next, backroll the epoxy with a roller in order to lay down a coating at a 200 sq. ft. per gallon thickness (approx. 8 mils). A solid color pigment can be added to the primer coat in order to better cover substrate. For the top coat, the application will vary depending on desired appearance. Epoxy can be spread with a rubber trowel, brush or roller. It can be applied as thin as 100 sq. ft. per gallon or as thick as 20 sq. ft. per gallon (approx. 80 mils or 2 mm) and remain crystal clear. Ultra Z Poxy will self level. To build thickness or add more color, additional coats should be applied no sooner than 16 hours and no later than 24 hours (in 70°F) after the previous coat. If this window is missed, the epoxy surface should be sanded to 100 grit before recoating.

Clean Up and Removal: Clean all tools and materials with the cleaner/thinner for epoxies. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.

Precautions and Limitations

- Minimum/Maximum temperature of substrate: 50°F / 86°F.
- Maximum relative humidity during application and curing: 85%.
- Substrate temperature must be 5.5°F above dew point measured.
- Moisture content of substrate must be < 4 % when coating is applied.
- Avoid exterior use on substrates at ground level. Product may discolor in direct UV exposure.
- Protect from humidity, condensation and contact with water during the 24 hour initial curing period.

Health and Safety

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Avoid breathing vapors released from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation.

Consult the material safety data sheet for further information.

Important Notice

•• If applying over an existing colored surface, proper adhesion and compatibility tests are essential. When using this product, the substrate preparation, application, performance and all other liabilities are strictly the end users responsibility. CCS and it's affiliates offers no guaranty, warranty or other claims to the success or results from the use of this product. CCS warrants the product to be free of defects and will replace or refund the purchase price of the product in the case that said products are proven defective. Any consequential damages including any labor costs are not covered by this warranty and are therefore not recoverable from the manufacturer or associated reseller.

Chemical Resistance

A = RESISTANT • B = LIMITED RESISTANT • C = NOT RESISTANT • D = DISCOLORATION A/O LOSS OF GLOSS (IRREVERSIBLE)

TEST GROUP	1 DAY IMMERSION	1 DAY SPILLAGE	3 DAYS IMMERSION	3 DAYS SPILLAGE	7 DAYS IMMERSION	42 DAYS IMMERSION
PETROL CONTAINING MAX. 5 VOL.-% BIO ALCOHOL	A	A	A/D	A	A/D	B/D
AIRCRAFT FUEL	A	A	A	A	A/D	A/D
HEATING FUEL / UNUSED ENGINE AND LUBRICATING OILS	A	A	A	A	A	A
ALL HYDROCARBONS CONTAINING MAX. 5 VOL.-% BENZENE, EXCEPT PETROL	A/D	A	B/D	A	B/D	B/D
CRUDE OIL	A	A	A/D	A/D	A/D	A/D
USED ENGINE AND LUBRICATING OILS	A/D	A	A/D	A/D	A/D	A/D
ALCOHOLS (MAX. 48 VOL.-% METHANOL), GLYCOL ETHERS	A/D	A	A/D	A	B/D	B/D
ALL ALCOHOLS AND GLYCOL ETHERS	B/D	A	B/D	A/D	C	C
ALIPHATIC AND AROMATIC HALOGEN HYDROCARBONS $\geq C_2$	B/D	A	B/D	A	C	C
AROMATIC HALOGEN HYDROCARBONS	A/D	A	B/D	A	B/D	C
ALL ESTERS AND KETONES	B	A	B/D	A	B/D	C
AROMATIC ESTERS AND KETONES	A/D	A	A/D	A	A/D	B/D
BIODIESEL	A/D	A/D	A/D	A/D	A/D	A/D
WATERY SOLUTIONS OF ALIPHATIC ALDEHYDES (UP TO 40%)	A	A/D	A/D	A/D	A/D	A/D
ALIPHATIC ALDEHYDES INCLUDING THEIR WATERY SOLUTIONS	C	A	C	A	C	C
WATERY SOLUTIONS OF ORGANIC ACIDS (CARBON ACIDS) (UP TO 10%) INCLUDING THEIR SALTS (IN WATERY SOLUTION)	A/D	A/D	A/D	A/D	A/D	C
ORGANIC ACIDS (CARBON ACID) INCLUDING THEIR SALTS (IN WATERY SOLUTION) EXCEPT FORMIC ACID	A/D	A/D	B/D	A/D	C	C
MINERAL ACIDS (UP TO 20 %) AND ACIDIOUS HYDROLYSING SALTS (PH < 6)	A/D	A/D	A/D	A/D	A/D	A/D
ANORGANIC LYES AND ALKALINE HYDROLYSING SALTS (PH > 8)	A	A	A/D	A	A/D	A/D
WATERY SOLUTIONS OF ANORGANIC, NON-OXIDIZING SALTS (PH 6-8)	A	A	A	A	A	A
AMINES AND THEIR SALTS (IN WATERY SOLUTION)	A/D	A	A/D	A	B/D	B/D
WATERY SOLUTIONS OF ORGANIC TENSIDES	A	A	A/D	A	A/D	A/D
WATERY SOLUTIONS OF ORGANIC TENSIDES	A/D	A	A/D	A/D	A/D	A/D
CYCLIC AND ACYCLIC ETHERS	B/D	A	C	A	C	C
ACYCLIC ETHERS	A/D	A	A/D	A	B/D	C
LACTIC ACID 30%	A/D	A/D	A/D	A/D	A/D	B/D
NA-HYPOCHLORITE 4.4%	A/D	A	A/D	A/D	A/D	A/D