

DESCRIPTION



ULTRASEAL is a single component, 100% solids, VOC compliant, aliphatic polyurea that was developed for high gloss (satin – mate) UV stable top coats. This coating provides reliable performance in a wide range of temperatures and climate conditions. ULTRASEAL has excellent resistance to UV rays, excellent abrasion resistance to many of today's harshest chemicals.

FEATURES AND BENEFITS

- ✓Excellent adhesion characteristics to a variety of substrates / coatings.
- ✓Three gloss level: high gloss, medium gloss and low gloss.
- ✓Chemical resistance and abrasion resistance.
- ✓No odor: Great for confined spaces.
- ✓24 hours pot life increases the workability of the coating, providing uniform topcoat.

INDUSTRY STANDARDS AND APPROVALS

LEED v4 Points Contribution **LEED Points**
 Health Product Declaration Up to 2 points.
 (HPD)* .

Using this product may help contribute to LEED certification of projects in the category shown above. Points are awarded based on contributions of all project materials.

WHERE TO USE

- ✓Heavy traffic areas.
- ✓Aircraft hangar floors.
- ✓Commercial kitchens.
- ✓Bathrooms and lavatories.
- ✓Chemical manufacturing plants.
- ✓Bar, table and counter top sealer.

LIMITATIONS

- ✓Do not use over structural cracks, in-plane cracks wider than 1/8" (3 mm) or where vertical out-of-plane movement occurs.
- ✓Do not use over dimensionally unstable substrates such as hardwood flooring, oriented strand board (OSB), substrates containing asbestos, or metal. See the "Suitable Substrates" section below.
- ✓Do not use where excessive substrate moisture and/or negative hydrostatic pressure exists.
- ✓Do not use with premixed setting materials.

✓Do not allow direct contact with solvent-based materials.

✓Do not use in extreme freeze/thaw conditions.

SUITABLE SUBSTRATES

- ✓Concrete (cured at least 28 days)
- ✓Cured cement mortar beds or leveling coats.
- ✓Cement backer units (CBUs) – see manufacturer's installation guidelines.
- ✓Properly prepared radiant-heated substrates (interior only).
- ✓Properly prepared ceramic tile, porcelain, cement terrazzo floors.

Note: Existing unglazed ceramic tile must be abraded, and existing cement terrazzo must be mechanically profiled. Both substrates must be skim coated with Prisma, Baseal primers.

•Exterior-grade plywood (for interior residential floors and countertops in dry conditions only).

SURFACE PREPARATION

- ✓All substrates must be structurally sound, stable, clean and free of any substance or condition that may reduce or prevent proper adhesion.
- ✓Do not use chemicals (acid etching or stripping) to prepare approved substrates.
- ✓Concrete substrates should have an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of #2. Mechanically clean and profile by diamond-cup grinding or another engineer-approved method when necessary.

✓Substrate and ambient temperatures must be between 45°F to 75°F during and at least 24 hours after application.

✓Fill all cracks and gaps that are greater than 1/32" (1 mm) with an appropriate filler material. Force the material into cracks, finish it smooth with a trowel and let it dry.

MIXING

Material should be pre-conditioned to a minimum of 50°F (10°C) prior to use. The material temperature must be brought to 5°F above the dew point temperature before opening and agitating the material to prevent condensation from entering the coating.

1. Cut off the top of the flexible pouch above the zip lock seal and pour into the bulk. Add the entire contents of the stabilizer shot to the bulk. Open the zip lock that contain matte agent and add to the bulk (1 bag- 1.5lb -gloss/ 2 bags - 3 lb - medium gloss/ 3 bags - 4.5 lbs - low gloss). Stir thoroughly with a mixer for approximately 3 minutes to place the solids content evenly in suspension before application.

2. Immediately spread out and smooth the material with a well-saturated 1/4" (6 mm) nap roller, using even and consistent strokes to achieve 100% coverage.

DO NOT POUR UNUSED MATERIAL BACK INTO THE ORIGINAL SHIPPING CONTAINER AS IT COULD CONTAMINATE THE ENTIRE BATCH.

Seal all containers immediately after pouring out desired quantities. It is important to limit the time the container is open. Mix and pour out only what is needed. At the end of the day apply a solvent "float" of approximately 5 ounces of MEK over the surface of the coating before resealing the container.

Roller

Use only phenolic core, solvent resistant, natural or synthetic fiber roller covers. ¼" to 3/8" nap are acceptable, thicker nap may cause bubbling of the coating.

Brush

Inexpensive natural fiber chip brushes are suggested – 2" to 4" width depending on the application. These will be one-time use items.

Thinner

Non required.

Clean Up

Use ACETONE or MEK to clean tools, etc. before product cures.

APPLICATION CONDITIONS

Shelf Life and Storage

Two (2) years in factory delivered unopened pouches. Once stabilized, 24 hours. Keep away from extreme heat, cold and moisture. Maintain at a proper storage temperature of 50-90°F. Keep out of direct sunlight and a way from fire hazards.

Repairs and Maintenance

Re-application of the product after 12 hours of initial application requires sanding and cleaning to achieve optimum adhesion. Contact POLICRETE for site specific recommendations. Do Not clean floor with solvents or solvent based cleaners. Contact POLICRETE for specific cleaner recommendations.

EXPANSION AND CONTROL JOINTS

•Provide for expansion and control joints as specified per TCNA Method EJ171 or per TTMAC Specification Guide 09 30 00, Detail 301MJ. Do not cover expansion joints with cement mortar.

•Protect POLICRETE work with metal strips (edge metal) along both edges of structural building expansion joints.

PROTECTION

•Protect the installation from foot traffic, rain and freezing for 24 hours.

•Protect the installed ULTRASEAL from contamination, excessive heat and extended sun exposure until the finish flooring is installed.

Product Performance Properties

Single Component	Track free 2-4 hours
72°F (24°C).	
Relative humidity 54%	Hardly 3-6 hours
Recoat between	4-12 hours
Optimal installation temperature is 65° F – 80° F.	
Cold applications may slow the cure time.	
Use with 24 hours after activation of material.	
Return to service	48 hours
Coverage:	250- 500 sqf, per gallon, per mil.

VOC compliant all 50 states and Canada.

ASTMD-4541Elcometer

Concrete no primer concrete failure: > 500 psi

Steel primer shear failure: > 2000 psi

Shelf Life and Product Characteristics (before mixing)

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C)
Color	Clear.
Storage	Store in cool, dry place. Protect from freezing.

PACKAGING

Product is sold clear. ULTRASEAL is packaged in a 3 gallons bucket containing, 1 gallon punches, 1 stabilizer shots and matte agent.

Typical Physical Properties

Tear Strength (PLI)	ASTM2240 800
Hardness, Shore D	ASTMD2240 84
Flexibility, 1/8" Mandrel	ASTMD1737
CS-17 Wheel (1,000 gm Load)	Pass Abrasion Resistance
Gloss.	ASTMD-523 @60°91+
Permeability	.038WVT
VOC Content	<1g/l
Impact Resistance	ASTMD2794 Direct-70IN-LB-FT Reverse-160

SHIPPING INFORMATION

Flash Point:	47°C(117°F)
Weight/Gallon:	9.7+/-1.0lbs.
DOT HAZARD CLASS	N/A
DOT PACKAGING GROUP	II
DOT LABEL	N/A
DOT SHIPPING NAME	Paint Related Material
DOT PLACARD	N/A

SAFETY PRECAUTIONS

DANGER!! Vapor and Atomized liquids are harmful. Overexposure may cause lung damage, allergic skin reactions, or respiratory reactions. Effects may be permanent, may affect the brain or nervous system causing dizziness, headaches, or nausea. Use only in well ventilated areas, wear approved respirators when necessary. Keep out of reach of children. See MSDS for First Aid recommendations.

WARRANTY

The technical data and any other printed information furnished by POLICRETE are true and accurate to the best of our knowledge. UltraSeal conforms to in house quality control procedures and should be considered free of defects. The data provided is believed to be reliable and is offered solely for evaluation. The use of this product is beyond the control of the seller, therefore the buyer assumes all risks of use and handling whether done in a matter that is in accordance with the provided posted directions or not. POLICRETE makes no warranty; expressed or implied, of its product and shall not be liable for indirect or consequential damage in any event.

LEGAL NOTICE

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED POLICRETE WARRANTIES.

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLE SHOULD HAVE BEEN DISCOVERED.

Acetic Acid 100%	RC
Acetone	RC
Ammonium Hydroxide	RC
50% Benzene	
Brake Fluid	RC
Brine saturated H2O	RC
Chlorinated H2O	
Clorox (10%) H2O	RC
Diesel fuel	RC
Hydrochloric Acid 20%	RC
Hydrofluoric Acid 10%	RR
Hydraulic fluid (oil)	RC
Isopropyl Alcohol	NR
Jet Fuel (JP-4)	R
Lactic Acid	C
MEK	R
Methanol	R
Methylene Chloride	C
Mineral Spirits	R
Motor Oil	R
MTBE	RC
Muriatic Acid 10%	RC
NaCl/H2O 10%	NR
Nitric Acid 20%	R, DIS
Phosphoric Acid 10%	RC
Propylene Carbonate	RC
Skydrol	
Sodium Hydroxide 25%	R
Sodium Hydroxide 50%	R, DIS
Sodium Hypchlorite 10%	RC
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 14 days at 82° C	R
Xylene	NR

WARRANTY

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 effects.

NR= Not recommended.

Dis= discolorative.