

POLY 250 CLEAR

PRODUCT CODE: 005-P250C

TWO COMPONENT SOLVENT BASED CLEAR URETHANE

PRODUCT DESCRIPTION

Poly 250 Clear Urethane is a UV Resistant, specially formulated, two component, low viscosity acrylic urethane. This product provides a tough, scratch resistant, high gloss protective coating for interior and exterior use.

BENEFITS/FEATURES

- ◆ Provides high gloss, abrasion resistant finish
- ◆ Superior UV stability outperforms many similar products on today's market

RECOMMENDED APPLICATIONS

Poly 250 Clear Urethane is recommended for use on interior or exterior industrial and decorative concrete surfaces in commercial, retail, and high traffic areas.

TECHNICAL INFORMATION

Abrasion Resistance.....	.65—70 mg loss <small>(Tabler Index, ASTM 4060-81, CS-17 Abrasion Wheel, 1000 gram load)</small>
Gloss 60°.....	.92
Elongation (ASTM D882-67).....	5.1 - 7.1%
Flexibility (1/8" Mandrel).....	Pass
Hardness (7 days).....	.5H - 6H
Heat Resistance.....	300° F
Water Resistance.....	Excellent
Solids % Weight (Federal Spec. TTP-141B).....	.51%
Density lbs/Ga. (Federal Spec. TTP-141B).....	8.51

VOC.....	< 400 grams/liter
Mix Ratio (a/b volume).....	4 to 1
Coverage (3 mils drf.).....	280 sq. ft./ga
Viscosity.....	85-87 KU
Pot Life.....	45 Minutes
Dry Time-Set to Touch (50% R.H. @ 72° F).....	2-3 hours
Dry Time-Recoat (50% R.H. @ 72° F).....	4-8 hours
Dry Time-Light Traffic (50% R.H. @ 72° F).....	24 hours
Dry Time-Cure (50% R.H. @ 72° F).....	72 hours
Dry Time-Full Cure (50% R.H. @ 72° F).....	7 days
Solvent.....	Xylene, Butyl Acetate, Aromatic 100
Flash Point.....	80° F

CHEMICAL & STAIN RESISTANCE (ASTM D- 1308 24 HOUR IMMERSION)

Wine	No Effect	Urine	No Effect
Gasoline	No Effect	Motor Oil	No Effect
Brake Fluid	No Effect	Transmission Fluid	No Effect
Skydrol	No Effect	10% Sulphuric Acid	No Effect
10% Hydrochloric Acid	No Effect	10% Acetic Acid	No Effect
Xylene	No Effect	MEK	No Effect

APPROXIMATE COVERAGE RATES

<u>Application Surface</u>	<u>First Coat</u>	<u>Optional Second Coat</u>
New (unsealed) concrete	250-300 ft ²	250-300 ft ²

*Coverage rates vary depending upon surface porosity and texture, and application method. Excessive build up should be avoided.

**Please refer to application instructions for proper application of second coat.

SHELF LIFE

Poly 250 Clear Urethane has a shelf life of up to one year in it's original, sealed, unopened container.

PACKAGING

Poly 250 Clear Urethane is packaged in 1.25 gallon and 5 gallon kits.

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EPOXIES, URETHANES, ETC. POLY 250 CLEAR URETHANE

INSTRUCTIONS FOR USE

SURFACE PREPARATION:

New Concrete: Acid etch evenly with a solution of 1 part commercial muriatic acid to 3 parts clean water (by volume) and rinse thoroughly with our **Balance** neutralizer, or a neutralizing solution of 1 cup ammonia to 5 gallons clean water to achieve a neutral substrate of 7 pH. Allow surface to dry completely prior to coating application. **Light shotblasting or diamond grinding is suggested for superior adhesion.**

Coated Concrete: An existing coating must be completely removed prior to applying new product or a thorough sanding or other mechanical grinding is highly recommended to prepare the surface if applying over an existing coating. After existing coating is removed or sanded and prepared a test area coat is highly recommended to test adhesion prior to entire application.

Substrate temperature must be no less than 55 degrees F and not exceed 80 degrees F. Avoid applying coating in high humidity/moisture atmospheres. If applied outside these limits the coating may not achieve adequate film formation and may have excessive air entrapment, bubbles, blushing or hazing.

MIXING: Mix exactly 4 parts of A to 1 part of B. Mix thoroughly to ensure uniform coating, color (if applicable), and thorough curing properties. No induction time is needed. Be sure to only mix enough material that can be applied within 45 minutes.

APPLICATION: It is recommended to apply this coating using a 3/8"-1/2" shed-free, phenolic core roller. Apply evenly at a rate of 250-300 square feet per gallon, always keeping a wet edge. Back rolling is necessary to achieve a uniform, roller mark free application. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. Do not allow to puddle. Use a bristle brush to remove excess coating in joints. It is recommended to recoat within 24 hours of first coat (suggested recoat time approximately 10-12 hours in average application temperatures of 50% R.H. @ 72° F). If recoat time exceeds 24 hours, reduce the second coat adding 15% Acetone (approx. 1 pint Acetone to 1 mixed gallon of product) to achieve proper intercoat adhesion.

PLEASE NOTE: It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc.

CLEAN-UP

Use Xylene. Dispose of containers in accordance with local and federal regulations.

PRODUCT REMOVAL

Dried, cured urethane may be removed with a commercial stripper, but recommended removal is by way of mechanical means, including sanding, shotblasting, etc.

PRECAUTIONS AND LIMITATIONS

- ▶ **Poly 250 Clear Urethane** will not freeze during storage, however, allow temperature to rise to a minimum 60 degrees F prior to application.
- ▶ All HVAC ventilation ducts should be somehow blocked prior to application so solvents fumes are not distributed.
- ▶ Keep away from open flames. **Poly 250 Clear Urethane** is flammable and is very susceptible to ignition.
- ▶ It is not recommended to apply **Poly 250 Clear Urethane** over existing coatings due to inadequate adhesion.
- ▶ Coverage rates depend upon many conditions including application method, surface porosity, applicator, ect.
- ▶ **Poly 250 Clear Urethane** should be applied in medium to thin coats. Do not puddle.
- ▶ Be aware that this product may be slippery when wet. Anti Slip additive may be needed to reduce surface slip hazards.
- ▶ **Poly 250 Clear Urethane** contains harsh vapors. Adequate ventilation and proper respiratory protection is necessary.
- ▶ Do not apply **Poly 250 Clear Urethane** over wet or damp surfaces. Moisture tests may be necessary prior to application.

SPECIAL NOTES

Please consult Material Safety Data Sheet (MSDS) and read Warranty information prior to use. This information can be requested by contacting customer service at 615-256-5723.

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