TECHNICAL DATA SHEET

Top-Poly 246

SOLVENT CHEMICAL RESISTANT POLYURETHANE

PRODUCT DESCRIPTION:

Top-Poly 246 Chemical Resistant Polyurethane Coating is a high solids, high build chemical resistant two-component, gloss finish, aliphatic polyurethane coating. Top-Poly*246* provides strong chemical resistance and non-yellowing for use on exterior and interior pre-primed concrete surfaces. Typical surfaces for use of this product are aircraft hangars, automotive repair shops, service stations, show rooms, factory floors, garage floors, and many other commercial high traffic surfaces. Top-Poly *246* mixes at 2 Parts A to 1 Part B by volume. Top-Poly *246* is available in clear, white, 24 standard colors and also can be custom tinted.

Bond strength of this coating over previously installed coatings must be tested.

ADVANTAGES:

- *Excellent UV Resistance*
- *Gloss Finish*
- *Resists Yellowing*
- *Abrasion Resistant*
- *Excellent Durability*
- *24 Standard Colors*
- *Excellent Chemical Resistance*
- *V.O.C. Compliant* 420g/L*
- *Custom Tints Available*

*Check your local V.O.C. (Volatile Organic Content) Regulations before use.

USES:

- *Aircraft Hangars*
- *Auto Repair Shops*
- *Service Stations*
- *Show Rooms*
- *Factory Floors*
- *Commercial Floors*

PHYSICAL PROPERTIES:

Vehicle	*Polyurethane / Aliphatic Isocyanate*
Mixing Ratio	*2 -Parts A Resin to 1 Part B Curative*
Colors	*White, Clear and 24 Standard Colors (Custom tints available).*
Thinner / Reducer	*Top-Poly 246 Reducer* *Thin up to one pint per gallon after mixing Part A and Part B. Colder surfaces require more thinning than warmer surfaces.*
Application	*Brush and Roll.* *Use Solvent Resistant Brush and/or 3/16" – 5/16" High Quality Solvent Resistant Mohair Rollercover and/or Porcupine Roller (to reduce application generated entrained air)*
Recommended Primers	*Max-Bond 155 Waterborne Epoxy Coating or VC255 High Solids Epoxy 255 Coating*
Number of Coats	*1 coat over pre-primed or pre-coated surface.*
Solids – Clear Solids – Pigmented	*Weight 57.0% +/- 2* *Volume 53.6% +/- 2* *Weight 71.7% +/- 2* *Volume 62.3% +/- 2*
Volatile Organic Solvent	*Clear 415 grams/liter* *Pigmented 370 grams/liter*
Flash Point, T.T.C.	*105°F*
Theoretical Coverage (Sq. feet per gallon)	*Clear Pigmented* *1 mil (25 microns) 859 1000* *5 mils(125 microns) 172 200*
Minimum Application	*Pigmented: 2.65 DFT (4.01 WFT)* *Clear: 2.18 DFT (4.01 WFT)*

Abrasion Resistance Taber CS-17 wheel, 1000 cycles, 1000gm	*35 mg loss*
Hardness(Konig)	*105*
Impact Resistance (ASTM D-2794)	*160 inch pounds reverse and direct*
Flexibility	*Passes 1/8" conical mandrel*
Pot Life (Hours@77 deg F.)	*1 ½ - 2 ½ hours*
Cure Time (77° F& 50% Rel. Humidity.)	*To Touch: 4 – 6 hours* *To Re-coat: 10 – 12 hours* *Light Traffic: 30 - 48 hours* *Heavy Foot Traffic: 3 Days* *Full Cure: 7 Days* *Dry times will vary depending on conditions at the time of application.*
Recoat Time (77° F& 50% Rel. Humidity.)	*From 16 to 24 hours* *For application after 24 hours sand screen before recoat.*
Gloss @ 60 °	*90-93 (Gloss)*
Packaging	*1.5 gallon kits: 1 gallon Part A* *1/2 gallon Part B* *15 gallon kits: 2- 5 gallon pails Part A* *1- 5 gallon pail Part B*
Shelf Life	1 year when stored in unopened containers at an ambient temperature of 77° F. at 30% relative humidity. DO NOT ALLOW TO FREEZE.

1458 North 26th Avenue, Phoenix, Arizona 85009 Tel 602-484-7300 Fax 602-484-7313 Toll Free 1-888-485-7300

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COATING LIMITATIONS:
Vapors from this coating may be offensive. Do not apply in or around occupied buildings until building management and everyone occupying the structure is notified.

As with all performance coatings, the cured film may become slippery when wet or exposed to oily conditions. Non skid additives can be added to aid in slip resistance.

This product is resistant to tire pick up, but surfaces may discolor due to tire plasticizer migration.

Do not apply in damp or wet weather or in air temperatures below 50oF or over 90oF and or extremely high humidity conditions.

Do not apply over unsound surfaces.

For specific chemical resistant properties that are not listed in Technical Data Sheet test before application.

If the coating is applied where food items are stored, remove all food items until the coating has fully cured and vapors have dissipated.

This product is not intended for spray application.

SURFACE PREPARATION:
Surfaces should be clean and free from contamination by dirt, oils, waxes, chalking, bacteria, cleaning, curing, etching agents, neutralizing agents, and peeling coatings. Existing coatings must be sanded or sand-screened using an 80 grit pad.

APPLICATION:
Bond strength of this coating over existing coatings should be determined by pre-testing. This coating must be applied over previously primed substrates. Always mix with new or uncontaminated mixing paddles. Mix this product well before use. To reduce bubbling of the coating avoid excessive agitation of the liquids. Premix both components before mixing together. Mix ratio is 2 parts A to 1 part B. Apply with notched squeegee, brush or roller to a maximum application thickness of 10 wet mils per coat. The first coat should be completely tack free before recoating. The second coat should be applied between 16 and 24 hours after the first coat (under normal curing conditions). If the coating is allowed to cure longer than 24 hours, sand to a uniform dullness. The floor should show no gloss or high spots. Do not apply coating unless substrate temperature is 50^{o} F and rising or 95 ^{o}F and falling. To lessen bubbling of the coating avoid excessive agitation of the liquids with the roller or applicator. It is recommended that this coating system not be exposed to water or moisture during mixing, application and cure. Contamination with moisture can cause premature curing, whitening and bubbles in the film. This coating is not designed in applications where the coated surface is immersed in water for extended lengths of time. Clean up tools with Xylene or VC 246 Reducer. Mixed Top-Poly *246* can be thinned 1 pint per gallon (approx. 10%) with Veron Coatings Top-Poly *246* Reducer. (Observe local and federal government regulations regarding V.O.C. (Volatile Organic Contents).
DISPOSE OF ALL WASTE IN ACCORDANCE WITH LOCAL STATE AND FEDERAL GOVERNMENT REGULATIONS.

KEEP OUT OF THE REACH OF CHILDREN.
THIS MATERIAL IS COMBUSTIBLE. KEEP AWAY FROM FLAMES. Do not take internally. Immediately wash hands or any part of your body, which comes into, contact with this product. Wear appropriate protective equipment. Avoid breathing vapor, mist or fumes. Use appropriate respirator for solvent systems and use only in well-ventilated areas. Do not use in tank or pit without proper protection. Use product in accordance with this product data sheet, any variance voids all warranties and liabilities. READ MATERIAL SAFETY DATA SHEET BEFORE USE OF THIS PRODUCT.

IMPORTANT NOTICE TO PURCHASER:
This system is designed for the experienced contractor and applicator. The information contained in this document is furnished without warranty, representation, inducement or license of any kind, except that it is accurate to the best of Veron Coating Systems, Inc. knowledge obtained from sources believed by Veron Coating Systems, Inc. to be accurate. Veron Coating Systems, Inc. does not assume any legal responsibility for use or reliance upon the information contained in this document. Qualified professionals must perform all product testing and applications. Before using any chemical product, read its Material Safety Data Sheet.

WARRANTY
This product is warranted to be free of defect to the original purchaser. Any unused product proven to be defective must be returned to the seller for replacement. Any warranty of this product is limited to the replacement of any purchased product that has been paid for in full and been shown to be defective. The seller or manufacturers only obligation shall be to replace such quantity of the product proven to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct, incidental or consequential, arising out of the use of or misuse of this product. Before using this product the applicator shall determine the suitability of this product for the intended use and the applicator assumes all liability whatsoever in connection therewith.

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Inorganic Acids	Rating	Solvents	Rating
10% Hydrochloric Acid	E	Methyl Ethyl Ketone	G
37% Hydrochloric Acid	E	Xylene	E
10% Nitric Acid	G	Toluene	G
50% Nitric Acid	G*	Isopropanol	G
10% Phosphoric Acid	E	Ethanol	G
50% Phosphoric Acid	G*	Ethyl Acetate	G
10% Sulfuric Acid	E	Trichloroethylene	G
50% Sulfuric Acid	F	Mineral Spirits	E
98% Sulfuric Acid	NR	Naphtha	E
Organic Acids	**Rating**	**Food And Beverages**	**Rating**
10% Acetic Acid	G	Water	E
25% Acetic Acid	F*	Coffee	E
50% Acetic Acid	NR	Milk	E
Glacial Acetic Acid	NR	Mustard	G
85% Lactic Acid	G	Vinegar	E
50% Citric Acid	F	Vegetable Oils	E
		Beer	E
Fuels, Lubricants, Hydraulic Fluids	**Rating**	Wine	G
Gasoline	E	Whiskey	G
Transmission Fluid	E	Cola	E
Brake Fluid	E		
Skydrol	F	**Miscellaneous**	**Rating**
Jet Fuel A-1	E	Blood	E
Motor Oil	E	Urine	E

* Stains

Tests were conducted on samples cured 7 days at room temperature. This chart should be used to determine the effect of the chemicals illustrated all chemicals not listed should be evaluated separately. Samples were tested on a pigmented film applied over Max-Bond 155 Waterborne Epoxy Primer. A ratings key is as follows:

RATINGS
E = Excellent
G = Good
F = Fair
NR = Not Recommended

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PROBLEMS	CAUSES
Orange Peel Finish	Coating applied too heavy. Coating applied over hot surface or cured in too hot conditions. Coating applied over incompatible existing surface. Recoating too soon.
Wrinkling of Film	Product applied too heavy. Coating applied over uncured film. Surface hot when coating is applied. Recoating too soon. Coating applied over incompatible existing coating.
Slow Cure or Poor Cure	Surface temperatures too cold. Poor mixing of the A & B components. Improper mixing ratios. Poor ventilation during application and cure. Coating applied too thick. Use of excessive reducer. Poor choice of reducer. Excessive use of “Cabosil” or fumed silica type of thickening agent.
Poor Gloss, Dull Finish	Solvents trapped in film due to inadequate ventilation during application and cure. Poor choice of reducer. Excessive use of non-skid additive. Excessive use of “Cabosil” or fumed silica type of thickening agent.
Whitening on or in the Cured Film	Film applied when surface still had moisture in it. Coating is exposed to water before completely cured.
Roller Marks in the Finish	High surface and ambient temperatures when applying. Use of fast solvent reducer when temperatures are too high. Humidity too high during application. Extra catalyst added to product. Product applied too thin.
Bubbles in the finish (1mm – 6mm)	Coating applied too soon over primer or undercoat. Extra catalyst added to product. Product applied too heavy. Temperature too high (over 90^{o}F.) during application. Incorrect choice of rollercover.
Bubbles in the Finish (greater than 6mm)	Humidity too high during application. Extra catalyst added to product. Product applied too heavy.
Coating Curing Fast	Use of fast solvent reducer when temperatures are too high. High surface and ambient temperatures when applying. Poor mixing of the A & B components, too much catalyst in mix.
Fisheyes; Crawling	Improper substrate cleaning. Surface contamination from oil, grease, silicone, sweat, or mold release agents, etc.
Pealing between Coats	Past critical recoat time when applied. Contamination between coats. Recoating too late. Improper mixing ratios, extra catalyst added to product.

DISPOSAL: DISPOSE OF ALL WASTE IN ACCORDANCE WITH LOCAL STATE AND FEDERAL GOVERNMENT REGULATIONS. Empty containers may contain coating residue, including flammable liquids or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned.

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