TECHNICAL DATA SHEET

FAST-POLY 545

SOLVENT BASED POLYASPARTIC COATING

PRODUCT DESCRIPTION:

Fast-Poly 545 High Solids Aliphatic Polyaspartic Coating is a high solids, fast cure two-component, high gloss finish coating. *Fast-Poly 545* provides good chemical resistance and is resistant to yellowing for use on exterior and interior pre-primed concrete surfaces. The fast cure properties of this coating enable the user to resume normal activities within 24 hours at 75 degree application and 48 - 72 hours in temperatures as low as 60 degrees. Typical surfaces for use of this product are aircraft hangars, automotive repair shops, service stations, show rooms, restaurants, bars, factory floors, garage floors, and many other commercial high traffic surfaces. *Fast-Poly 545* mixes at 2 Parts A to 1 Part B by volume. *Fast-Poly 545* is available in clear, white, 24 standard colors and also can be custom tinted. Recommended primer for faster recoat times is our MaxBond 157 waterborne epoxy primer. ***Bond strength of this coating over previously installed coatings must be tested.***

ADVANTAGES:

- *Fast Cure*
- *High Gloss Finish*
- *Yellowing Resistant*
- *High build up to 12 mils/coat*
- *24 Hour Full Cure**
- *Excellent Durability*
- *24 Standard Colors*
- *Abrasion Resistant*
- *Excellent UV Resistance*
- *VOCs Lower than 250 g/L*
- *Custom Tints Available*

**** Full cure at 24 hours when film is applied and cured at temperatures above 75°F. In temperatures lower then 75°F full cure can take up to 72 hours.***

USES:

- *Aircraft Hangars*
- *Show Rooms*
- *Garage Floors*
- *Restaurants*
- *Auto Repair Shops*
- *Factory Floors*
- *Laboratory Floors*
- *Bar Floors*
- *Service Stations*
- *Commercial Floors*
- *Countertops*

PHYSICAL PROPERTIES:

Vehicle	*Polyaspartic-Polyurea Resins*
Mixing Ratio	*2 -Parts A to 1 Part B*
Colors	*White and 24 Standard Colors (Custom tints available).*
Thinner / Reducer	*None Required or recommended*
Application	*Brush and Roll. Use Solvent Resistant Brush and/or 3/8" - 3/16" High Quality Solvent Resistant Mohair Rollercover*
Recommended Primers	*Max-Bond 157 FC Epoxy Primer*
Number of Coats	*1 coat over pre-primed or pre-coated surface.*
Solids	*Pigmented Clear* *Weight 75% +/- 1 Weight 70% +/- 1* *Volume 71% +/- 1 Volume 67% +/- 1*
Volatile Organic Solvent	*Pigmented 205 grams/liter* *Clear 250 grams/liter*
Flash Point, T.T.C.	*109°F*
Theoretical Coverage	*Pigmented* *1 mil (25 microns) 1462* *5 mils(125 microns) 292*
Gloss @ 60 °	*90-93 (Gloss)*
Impact Resistance (ASTM D-2794)	*40 inch pounds reverse and direct*
Hardness(Shore D)	*75*
Abrasion Resistance Taber CS-17 wheel, 1000 cycles, 1000gm	*44 mg loss*

Pot Life (Hours@77 deg F.)	*30-45 minutes*
Cure Time * (77° F& 50% Rel. Humidity.)	*To Touch: 75 minutes* *To Re-coat: 2 hours* *Light Traffic: 6 - 12 hours* *Heavy Traffic: 2 Days* *Full Cure: 3 days* ***Dry times will vary depending on conditions at the time of application.***
Recoat Time (77° F& 50% Rel. Humidity.)	*From 2 to 4 hours* *For application after 12 hours sand screen before recoat.*
Packaging	*1.5 gallon kits: 1 gallon Part A* *1/2 gallon Part B* *3.0 gallon kits: 2 gallons Part A* *1 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.

DECORATIVE AND PROTECTIVE CONCRETE COATING SYSTEMS
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COATING LIMITATIONS:
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 45°F or over 100°F and or extremely high humidity conditions.

Do not apply over unsound and unprimed surfaces.

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

This product is not intended for spraying applications.

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. Proper preparation techniques should be followed such as Acid Etching or Mechanical Abrading. For a broader coverage of surface preparation techniques refer to Veron Coating's Surface Preparation Guide.

Concrete Dryness:
To ensure proper adhesion to the substrate a moisture vapor emission test is recommended using ASTM D4263.
This test is done by taping a sheet of 4 mil clear polyethylene plastic (18" x 18") to the concrete surface. The sheet should be left for at least 16 hours.

Mechanical Preparation:
Mechanically abrade concrete before priming by scarifying, sandblasting or surface grinding.

Chemical Concrete Preparation:
Acid Etch using standard grade muratic acid (hydrochloric acid) at a ratio of 4 parts tap water and 1 part muratic acid. Pour mixture onto the concrete evenly placing "fresh" materials over the entire surface. Scrub with stiff bristle brush or automatic scrubber. Do not allow surface to dry. Rinse surface using ample amounts of water and ammonia solutions. On interior surfaces use wet vacuum to remove material from surface. Repeat process until the surface is the equivalent to a 60 – 80 grit sandpaper.

Proper evaluation of the substrate to determine the appropriate preparation needed to apply this coating is the sole responsibility of the applicator.

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.

Premix both components before mixing together. Mix ratio is 2 parts A to 1 part B. Apply with brush or roller. The first coat should be completely tack free before recoating. (The second coat should be applied between 2 to 4 hours after the first coat (under normal curing conditions). If the coating is allowed to cure longer than 12 hours then sand screen before applying next coat. Do not apply coating unless substrate temperature is 45° F and rising or 100 °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. Excessive moisture can cause a shorter pot life and working time. 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 MEK. (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 TCC Sales & Service, LLC. knowledge obtained from sources believed by TCC Sales & Service, LLC. to be accurate. TCC Sales & Service, LLC. 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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PROBLEMS	CAUSES
Orange Peel Finish	Coating applied too heavy. Rolling the surface too close to the end of the pot life or final cure. 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. Excessive use of "Cabosil" or fumed silica type of thickening agent.
Fast Cure	Excessive moisture in coating, reducer or air can accelerate the cure of this system. Keep containers sealed tightly.
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 95ºF.) 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	Application when temperatures are too high. High surface and ambient temperatures when applying. Poor mixing of the A & B components, too much (Part B)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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