



TEXAS POLYMER COATINGS

Technical Data Sheet

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TEXAS POLYMER COATINGS, INC.
331 Cochran Rd, Weatherford, TX 76085

texaspolymercoatings.com



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Tex Tuff

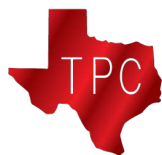
Polyaspartic 9500

Aliphatic Polyaspartic Coating System

DESCRIPTION	Tex Tuff Polyaspartic 9500 is a 100%, two component, aliphatic polyaspartic coating system. It combines advantages of both epoxy and polyurethane technologies. It provides outstanding appearance, superior chemical, U.V. and solvent resistance. It exhibits excellent physical properties.				
PRIMARY APPLICATIONS	<div>■ Marine protection for fiberglass, steel, concrete or wood</div> <div>■ UV-stable top coat</div> <div>■ Aircraft hangar floors</div> <div>■ Low temperature equipment</div> <div>■ Maintenance facilities</div> <div>■ Offshore platforms</div> <div>■ Industrial shop floors</div> <div>■ Car washes or wash bays</div> <div>■ Primary and Secondary Containment</div> <div>■ Cooling towers</div> <div>■ Bridges</div> <div>■ Wastewater treatment applications</div>				
ADVANTAGES	<div>■ Long pot life (30 min to 45 min)</div> <div>■ Very fast drying in thin fil</div> <div>■ Superior chemical resistance (very good stain resistance)</div> <div>■ Superior weather and abrasion resistance</div> <div>■ Non yellowing and superior gloss retention</div> <div>■ Dense surface resistant to bacteria and humidity</div> <div>■ May apply several layers onto itself</div> <div>■ Product is VOC compliant, allowing for interior application without harmful odors</div> <div>■ Excellent adhesive properties, allowing application on many different substrates</div>				
TECHNICAL DATA	Packaging	3 US gal. & 15 US gal.			
	Color	Part A	Part B	Mix	
		Upon Request	Amber	Upon Request	
	Recommended Thickness Finish Coat	Tex Tuff Polyaspartic 9500 8-12mils (80-200 ft². /gal)			
	Shelf Life	12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.			
	Mix Ratio, by volume	A: B = 2:1 (100:50)			
	Mix Ratio, by weight (grams)	A: B = 100:57			
	Pot life	60-90 minutes @ 77° F			
PROPERTIES @ 73°F and 50% R.H.	Solids Content, by weight Clear	Part A	Part B	Mix	
		100%	100%	100%	
	Solids Content, by volume Clear	Part A	Part B	Mix	
		100%	100%	100%	
	Specific Gravity	Part A	Part B	Mix	
		1.00	1.16	1.07	
	Thinner Recommended	XYLENE			
	Abrasion Resistance, ASTM D4060, Taber Abrader CS-17 Wheel / 1000g (2.2 lbs.) / 1000 cycles	0.05 mg loss			
	Adhesion, ASTM D4541 Concrete-primer				
		>500 psi (substrate ruptures)			
	Recoat	Substrate Temp	Minimum	Maximum	
		± 50° F	20 hours	36 hours	
		± 68° F	8 hours	24 hours	
		± 86° F	6 hours	24 hours	
	Curing Details	Substrate Temp	Foot Traffic	Light Traffic	Full Cure
		± 50° F	3 days	7 days	10 days
		± 68° F	2 days	5 days	7 days
		± 86° F	1 day	3 days	5 days

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Water Absorption, ASTM D570	0.2%		
Hardness (Shore D), ASTM D2240	70-75		
Flexibility, 1/8" Mandrel, ASTM D1737	Pass		
Falling Sand Abrasion Resistance (L sand/ 1 dry mil), ASTM D968	35		
Viscosity @ 25°C cps	Part A	Part B	Mix
	100-130	2400-3000	300-500
Tensile Strength, ASTM D638	6500 - 7600 psi		
Compressive Strength (psi MPa), ASTM D695	9000 - 10000		
*W/Quartz	14200		
*W/Chips	12200		
Elongation at Break, ASTM D638	40-50 %		
Tear Strength (PLI), ASTM D2240	350		

Please note, that the indicated coverage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same surface area.

****Please note that the indicated viscosity is for clear product only. Any addition of colorant may affect the viscosity.****

SURFACE PREPARATION

Old Concrete

Concrete surface must be cleaned and mechanically prepared using shotblasting, sand blasting, and/or diamond grinding. All oils, sealers, curing agents, waxes and fats must be removed prior to product application. Do not apply onto wet substrates. Chloride, moisture, and pH levels should be checked prior to application. Tex Tuff Epoxy 100 is suggested prior to application on porous concrete substrates. All cracks and substrate imperfections should be filled & repaired with crack filler prior to application.

New Concrete

New concrete should be allowed to cure for a minimum of 28 days. Compression resistance of concrete must be at least 25 MPa (3625 lbs./inch²) after 28 days and traction resistance must be at least 1.5 MPa (218 lbs./inch²). Shotblasting, sand blasting, and/or diamond grinding is required to remove the surface laitance that appears during the concrete finishing & curing process. Tex Tuff Epoxy 100 should be used to seal porous concrete surfaces prior to application. All cracks and substrate imperfections should be filled & repaired with crack filler prior to application.

MIXING

Materials should be pre-conditioned to a minimum of 50°F prior to use. Thoroughly mix each component separately using paddle mixers and a drill for a minimum of 2 minutes to place the solids content evenly in suspension. Pour component B into component A using the proper mixing ratio of 2A:1B by volume. Mix both components for at least 3 minutes using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a homogeneous mix. Only prepare quantity that may be applied during pot life of mixture.

APPLICATION

Apply mixed product on the prepared surface tightly (thin film using a rubber rake and pass a roller to obtain a uniform coating. Avoid creating puddles.

CLEANING

Use XYLENE before product cures for cleaning. Once the product has hardened, it may only be removed through mechanical means.

SUGGESTIONS

Sprinkle the primed area lightly with aggregate to provide better footing.

RESTRICTIONS

- Minimum/Maximum temperature of substrate: 59°F / 86°F.
- Maximum relative humidity during application and curing: 85 %.
- Humidity content of substrate must be < 4 % when coating is applied.
- Do not apply on porous surfaces where a transfer of humidity may occur during application.
- Protect from humidity, condensation and contact with water during the 24-hour initial curing period.



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CHEMICAL RESISTANCE	
CHEMICAL	RESULTS (77°F)
Acetic Acid 100%	C
Acetone	C
Ammonium Hydroxide 50%	RC
Benzene	C
Brine Saturated H ₂ O	R
Chlorinated H ₂ O	R
Clorox (10%) H ₂ O	R
Diesel Fuel	RC
Gasoline	RC
Gasoline/5% MTBE	RC
Gasoline/5% Methanol	RC
Hydrochloric Acid 20%	R
Hydrochloric Acid 10%	NR
Hydraulic Fluid (oil)	RC
Isopropyl Alcohol	R
Lactic Acid	RC
M.E.K.	RC
Methanol	R
Methylene Chloride	C
Mineral Spirits	RC
Motor Oil	R
MTBE	C
Muriatic Acid 10%	R
NaCl/H ₂ O 10%	R
Nitric Acid 20%	NR
Phosphoric Acid 10%	R
Phosphoric Acid 50%	NR
Potassium Hydroxide 10%	R
Potassium Hydroxide 20%	R, Dis
Propylene Carbonate	RC
Skydrol	C
Sodium Hydroxide 25%	R
Sodium Hydroxide 50%	R, Dis
Sodium Bicarbonate	R
Stearic Acid	R
Sugar/H ₂ O	R
Sulfuric Acid 10%	R
Sulfuric Acid >50%	RC
Toluene	R
1, 1, 1-Trichloroethane	C
Trisodium Phosphate	R
Vinegar/H ₂ O 5%	R
H ₂ O	R
H ₂ O 14 days at 180°F	RC
Xylene	RC

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 affects

NR= Not Recommended

Dis= Discoloration

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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 a physician. For respiratory irritation, move affected person 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. Contact with product may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filterin organic vapors approved by the NIOSH/MSHA is recommended. Work in well ventilated area.

Consult the material safety data sheet for further information.

IMPORTANT NOTICE

All statements, recommendations and technical information contained in this document are accurate to the best knowledge of TEXAS POLYMER COATINGS, INC. The data relates only to the specific material designated herein. It may not be valid if used in combination with any other materials. It is the users' responsibility to verify suitability of this information for their own particular use, and to test this product before use. TEXAS POLYMER COATINGS, INC. assumes no legal responsibility for use upon these data. TEXAS POLYMER COATINGS, INC. assumes no legal responsibility for any direct, indirect, consequential, economic, or any other damage except to replace the product or refund the purchase price as set out in the purchase agreement.