



TEXAS POLYMER COATINGS

Technical Data Sheet

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Revision #3

TEXAS POLYMER COATINGS, INC.
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Tex Tuff Epoxy 100

Metallic LV

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DESCRIPTION	Tex Tuff Epoxy 100 Metallic LV is a solvent-free, two component epoxy coating system. It exhibits very good appearance, chemical and physical properties. It was developed for systems that require a low viscosity epoxy coating for easier application.				
ADVANTAGES	<ul style="list-style-type: none"> ■ Dense surface resistant to bacteria and moisture and easy to clean. ■ May apply several layers onto itself with excellent adhesion. ■ Contains no solvent with a very low VOC content, allowing for interior application without harmful odors. ■ Excellent adhesive properties, allowing application on other firm and hard coating, as well as a good bond to the substrate. 				
TECHNICAL DATA	Packaging	3 US gal. & 15 US gal.			
	Color	Part A Upon Request	Part B Clear to Amber	Mix Upon Request	
	Recommended Thickness	Primer	6-8 mils		
		Finish Coat	8-12 mils		
	Coverage per gallon (8 mils thick)	200 ft ²			
	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				
		Clear	A: B =100: 41-48		
		Colors	A: B =100: 39-45		
	Gel Time (454 g)	40-50 minutes @ 77° F			
PROPERTIES @ 73°F and 50% R.H.	Solids Content, by weight	100%			
	Solids Content, by volume	100%			
	Specific Gravity	Part A	Part B	Mix	
		Clear	1.10-1.15	0.9-1.0	--
		Colors	1.15-1.20	0.9-1.0	--
	Thinner Recommended	XYLENE			
	Waiting Time/ Overcoat Ability				
	Before Applying Tex Tuff Epoxy 100 over primer	Substrate Temperature	Minimum	Maximum	
		+ 50° F	N.A	N.A	
		+ 68° F	12 hours	2 days	
Before Applying Second Coat of Tex Tuff Epoxy 100	+ 86° F	6 hours	1 day		
	+ 50° F	30 hours	3 days		
	+ 68° F	24 hours	2 days		
	+ 86° F	16 hours	1 day		
Curing Details	Substrate Temperature	Foot Traffic	Light Traffic	Full cure	
	+50° F	30 hours	5 days	10 days	
	+68° F	24 hours	3 days	7 days	
	+86° F	16 hours	2 days	5 days	
Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.					



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Bond Resistance (psi), ASTM D4541	>300 (substrate ruptures)			
Permeability (%), ASTM D570	0.3 %			
Hardness (Shore D), ASTM D2240	85-90			
Abrasive resistance, ASTM D4060 (CS17 / 1000 cycles / 1000 g)	0.10 g			
Viscosity @ 77° F	Part A	Part B	Mix	
	Clear	1000-1200	125-225	900-1100
	Colors	1200-1400	122-225	900-1100
Tensile strength (psi), ASTM D638	6500			
Compressive Strength (psi MPa), ASTM D695	11000-12500			
Elongation (%), ASTM D638	6.7			

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.

SURFACE PREPARATION	<p>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. TexTuff-100 MVB primer is suggested prior to application on porous concrete substrates. All cracks and substrate imperfections should be filled and repaired with TexTuff-4400 prior to application.</p> <p>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 and curing process. TexTuff-100 primer should be used to seal porous concrete surfaces prior to application. All cracks and substrate imperfections should be filled and repaired with TexTuff-4400 prior to application.</p>
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	Clean all tools and materials with the cleaner/thinner for epoxies. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.
RESTRICTIONS	<ul style="list-style-type: none"> ■ Minimum/Maximum temperature of substrate: 59°F / 86°F. ■ Maximum relative humidity during application and curing: 85%. ■ Substrate temperature must be 59°F. ■ 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. ■ Avoid exterior use on substrates at ground level. ■ Protect from humidity, condensation and contact with water during the 24-hour initial curing period. ■ Surface may discolor in areas exposed to regular ultraviolet light.



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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 irritations, move affected person outdoors to fresh air. Remove contaminated clothes and wash before reuse.

Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke irritation. Avoid eye contact. Contact with product may cause severe burns. Avoid breathing vapors released from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Always work in a properly 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.