

TEXAS POLYMER COATINGS

Technical Data Sheet

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Revision #2

TEXAS POLYMER COATINGS, INC.
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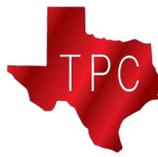


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Tex Tuff 200-700

Polyurea

DESCRIPTION	Tex Tuff 200-700 Polyurea is a two-component, 100% solids, elastomeric system designed to be used as base coat for a variety of coating systems. It provides outstanding adhesion on a large number of substrates and performs well in a wide range of temperature conditions.			
PRIMARY APPLICATIONS	<ul style="list-style-type: none"> ■ Aircraft hangar floors ■ Automotive shops ■ Bathrooms and locker rooms ■ Bridge decks and pillars ■ Car washes or wash bays ■ Industrial shop floors ■ Maintenance facilities ■ Offshore platforms ■ Primer/ Basecoat for use on concrete, wood, and block ■ Sidewalks and walkways ■ Wall coatings over sheetrock, wood and concrete ■ Wastewater treatment applications 			
ADVANTAGES	<ul style="list-style-type: none"> ■ Displays moderate cure times with excellent adhesion ■ Easy to mix 2:1 ratio ■ Emits virtually no odors and can be applied indoors ■ Excellent adhesive properties, allowing application on other firm and hard coating, as well as a good bond to the substrate ■ Long open times allow for self-leveling capabilities and increased hiding power as well as broadcasts of decorative aggregate ■ Long pot life (35 to 45 min.) ■ VOC compliant in all 50 states and Canada 			
TECHNICAL DATA	Packaging	3 US gal. & 15 US gal.		
	Color	Part A	Part B	Mix
		Upon Request	Light Yellow	Upon Request
	Recommended Thickness	8 - 12 mils (150-200 ft ² ./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		
	Mix Ratio, by weight	A: B = 100:63		
Gel Time (100 g)	25-35 minutes @ 77°F			
PROPERTIES @ 73°F and 50% R.H.	Solids Content, by weight	Part A	Part B	Mix
		100%	100%	100%
	Solids Content, by volume	Part A	Part B	Mix
		100%	100%	100%
	Specific Gravity	Part A	Part B	Mix
		0.95	1.25	1.09
	Thinner Recommended	XYLENE		
Bond Strength (psi), ASTM D4541	N.A			
Water Absorption (%), ASTM D570	N.A			



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Recoat		Substrate Temp	Minimum	Maximum
		± 50 °F	1 day	2 days
		± 68 °F	3 hours	1 day
		± 86 °F	2 hours	1 day
Curing Details	Substrate Temp	Foot Traffic	Light Traffic	Full Cure
	± 50 °F	2 days	5 days	10 days
	± 68 °F	1 day	3 days	7 days
	± 86 °F	16 hours	2 days	5 days
Hardness (Shore D), ASTM D2240		45-50		
Abrasive Resistance (mg loss) (CS17 / 1000 cycles / 1000 g), ASTM D4060		31		
Flexibility, 1/8" Mandrel, ASTM D1737		Pass		
Viscosity @ 77°F		Part A	Part B	A/B Mix
		700 - 900	150 - 250	500 - 700
Tear Strength (PLI), ASTM 2240		355		
Tensile Strength, ASTM D638		4200		
Elongation at Break, ASTM D638		100		

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.****



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SURFACE PREPARATION	<p>Old Concrete Concrete surface must be cleaned. BLASTRAC, sand blasting, diamond grinder w/30 grit or coarse, or water blasting is highly recommended to remove surface contaminants. Any oils and fats must be removed prior to product application. Acid etching may be required (followed by a thorough rinsing) to open the pores of the concrete to accept a primer. Do not apply to wet substrates. Chloride, moisture, and pH levels should be checked prior to application.</p> <p>New Concrete The 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). BLASTRAC, sand blasting, diamond grinder w/30 grit or coarser or acid etching (followed by a thorough rinsing) is required to remove the surface laitance that appeared during the curing process.</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.
OVERLAPS	Subsequent overlaps must be applied when primer is still wet or tacky. If primer has dried reprime. Porous substrates may require multiple priming.
CLEANING	Clean all tools and materials with appropriate cleaner before the product cures. 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: 50°F / 86°F.■ Maximum relative humidity during application and curing: 85%.■ Substrate temperature must be 5.5°F above dew point measured.■ 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.
HEALTH AND SAFETY	<p>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.</p> <p>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 filtering organic vapors approved by the NIOSH/MSHA is recommended. Work in well ventilated area.</p> <p>*Consult the material safety data sheet for further information.*</p>
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.