

TEX300™

Where Reliability Runs Deep.



Applications

- ✓ Drill Pipe
- ✓ Production Tubing
- ✓ Work Strings

Quick View

Type	Epoxy Powder
Color	Green
Temperature	300°F (149°C)
Applied Thickness	10-20 mils
Characteristics	Corrosion & Abrasion Protection Scale Mitigation Hydraulic Efficiency

Plant Capabilities 2" to 12-3/4" OD

Smart Temperature Coating

At TSC Coatings™, we've designed our naming system to make product selection simple. Each name clearly reflects the coating's temperature tolerance, so customers can instantly identify the right solution for their downhole conditions. TEX300™ means it's rated up to 300°F - no guesswork, just straightforward decision-making.

Benefits & Highlights



Extended Wear-Life

Extends service life of pipe, reducing replacement frequency and capital expenditure.



Increased Flow Efficiency

Improves hydraulic performance, allowing for better mud flow and pressure control.



Corrosion & Abrasion Protection

TEX300™ defends against high-velocity fluids, solids, and cuttings that erode uncoated pipe.



Lower Operating Costs

The increased flow efficiency reduces pumping energy requirements, lowering fuel consumption.



Consistent Quality

Every joint is holiday tested to ensure consistent coverage.



Proven Performance

Lab testing demonstrates exceptional adhesion, chemical resistance, and erosion protection.

Comprehensive evaluations conducted, including: Autoclave, Thermal Properties, Flexibility, Chemical Resistance

Ready to protect your investment?

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TEX300™ TECHNICAL DATA

TEX300™ is a high-performance, epoxy powder coating formulated for internal pipe coatings; designed to withstand chemicals and elevated temperatures. TEX300™ strikes an excellent balance between toughness and flexibility.

Test Verified Material Properties

Test	Specification	Test Method
Temperature Tolerance	≤ 300°F (149°C)	Per Powder Manufacturer
Applied Thickness	10-20 mils	Per TSC Coatings
Specific Gravity	1.53 - 1.63	Per Powder Manufacturer
Gel Time at 400°F (204°C)	55 seconds	ISO 8130-6
Flexibility at 74°F (23°C)	1.5°/PD	Per Powder Manufacturer
Abrasion Resistance	avg. 17 mg loss	ASTM D4060 CS17 wheel, 1000 cycles, 1 kg load
Coefficient of Friction	28° 0.440/0.462	ASTM D202 (Slide angle °) ASTM D1894 (Kinetic/Static)
Pressure	To yield strength of pipe	

Chemical resistance* to the following ensuring durability and protection: CO₂, CH₄, H₂S, N₂

*Additional insights can be found in the Autoclave data provided below.

Autoclave Performance Characteristics

Temperature	Pressure	Test Conditions	Duration	Results
300°F (149°C)	6,500 psig	3% CO ₂ / 97% CH ₄ 50% Toluene / 50% Kerosene Brine	16 Hours	Pass
275°F (135°C)	5,000 psig	1% H ₂ S / 20% CO ₂ / 79% CH ₄ 50% Toluene / 50% Kerosene Brine	16 Hours	Pass
275°F (135°C)	6,500 psig	3% H ₂ S / 3% CO ₂ / 10% CH ₄ / N ₂ Lime Mud	72 Hours	Pass
300°F (149°C)	10,000 psig	3% CO ₂ / 97% N ₂ Instant Decompression	16 Hours	Pass
203°F (95°C)	3,000 psig	Gas Phase: N ₂ Liquid Phase: Treated Sea Water	24 Hours	No loss of adhesion; no swelling, softening, and blistering
203°F (95°C)	3,000 psig	Gas phase: 3% CO ₂ , 3% H ₂ S, 94% CH ₄ Liquid phase: Formation water brine	24 Hours	No loss of adhesion; no swelling, softening, and blistering
203°F (95°C)	3,000 psig	Gas phase: CO ₂ Liquid phase: Wasia water	24 Hours	No loss of adhesion; no swelling, softening, and blistering
122°F (50°C)		Covered vented container, 10% Vol. HCl	24 Hours	No loss of adhesion; no swelling, softening, and blistering

DISCLAIMER

The technical specification and performance data presented on this sheet are provided by the manufacturer and reflect their published information at the time of release. Periodic independent testing will be conducted to verify these claims. All listed data should be considered preliminary and subject to validation. Results from third-party evaluations will be shared as available and includes periodic validation of material properties by our Quality Program.