

TIPC 85ST



TECHNICAL DATA

PIPECLAD® TIPC 85ST INTERNAL PIPE COATING SYSTEM

Primary Service: Oil, natural gas, fresh and salt water, CO₂, mild H₂S and alkaline service to pH 12 for corrosion with paraffin mitigation. Primary Application: Enhanced for increased wear resistance. Drill pipe and production tubing, water and CO₂ injection, disposal wells and flow lines, hydraulic improvement.

SPECIFICATIONS & TEST STANDARD		
COLOR	GREEN	VISUAL COLOR-PASS
Gel Time	45-75 seconds	
Particle Size	D ₁₀ 7-10 microns (0.3-0.4 mils) D ₉₀ 100-155 microns (4.0-6.0 mils)	
325 Mesh Sieve Retention (%)	45-55%	
Thermal Properties	Tg ₁ 54-64° C (129-147° F) Tg ₂ 114-124° C (237-255° F)	CSA Z245.20 2018
Plate Flow at 300° F (149° C)	65-95 mm	
Moisture Content (%)	<0.5%	
Specific Gravity	1.57-1.67 g/cm ³	
ADDITIONAL INFORMATION		
Recommended Service:	Characteristics:	
High temperature drill pipe	Primer: Phenolic Primer	
Oil/water/gas wells	Thickness: 250-500 µm	
Rod pump wells	Use Temperature to 150° C (302° F)	
Gas lift		
POWDER PROPERTIES		
Coverage	0.617 m ² /kg per mm (122 ft ² /lb per mil)	
Shelf Life at 77° F (25° C) & 50% Relative Humidity	12 months	
APPLIED FILM PROPERTIES	SPECIFICATION	TEST METHOD
Abrasion Resistance	5 mg mass loss	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load
Gouge Resistance	Blank - 30 kg 43.2 microns (1.7 mils) Blank - 50 kg 127 microns (5 mils) Blank - 30 kg 170.2 microns (6.7 mils)	SL-1 Bit, Room Temp
Flexibility	1.5 °/PD at 23° C (74° F)	

AUTOCLAVE PERFORMANCE TESTS*

TEMPERATURE
149° C (300° F)

PRESSURE
6,500 psi

MEDIUM
3% CO₂ / 97% CH₄
50% Toluene /
50% Kerosene
3% Brine

DURATION
16 hours

RESULTS
Passed

TEMPERATURE
150° F (66° C)

PRESSURE
2,200 psi / 15.2 MPa

MEDIUM
1% H₂S / 3% CO₂ / 96%
CH₄ / 50% Toluene /
50% Kerosene
3% Brine

DURATION
16 hours

RESULTS
Passed

