



Tapecoat®

Technical Data Sheet

DESCRIPTION

Tapecoat TC® 7000 Epoxy is a two part, 100% solids, high temperature coating designed to provide protection against corrosion on pipelines with service temperatures up to 300°F (149°C). TC 7000 can be used as an above or below grade standalone coating or as a primer for Tapecoat high temperature tape products. In above grade applications oxidation is expected, but at the recommended coating thickness long term protection will be provided. TC 7000 is a fast curing epoxy allowing for backfill in 2-3 hours at 70°F and 50% RH.

SUBSTRATE COMPATIBILITY

Steel, Stainless Steel, Ductile Iron, other metals, FBE

RECOMMENDED USE

Ideal for protecting girth welds, fittings, flanges, valves, and all types of piping and metal structures. Can also be used for directional drilling when reinforced with TC Reinforcing Scrim.

SURFACE PREPARATION

SSPC SP-10/NACE No. 2/ SA 2 1/2 Near-White Blast Cleaning
 2-4 mil surface profile

PRIMER

None Required

OPTIONAL REINFORCEMENT

To increase abrasion and impact resistance and for creating high coating build TC Reinforcing Scrim can be used.

REFERENCE

TC 7000 meets all of the performance criteria listed in the most recent revisions of:

- NACE RP0105
- ANSI/AWWA C210

SAFETY

Refer to Material Safety Data Sheet: MSDS-TC7000-RESIN; MSDS-TC7000-HARDENER

APPLICATION

Refer to Application Guidelines: AG-EPOXIES

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 REGISTERED COMPANY

TYPICAL DATA

Property	US Customary	Metric	Test Method
Color	Red	Red	
Coating Thickness			
As a Stand Alone Coating	25 mil	635 μ m	
As a Primer	6-10 mil	150-250 μ m	
VOC Content	0 lb/gal	0 g/l	
Pot Life @ 70°F (21°C), 50% RH	15-20 minutes	15-20 minutes	
Time to Backfill @ 70°F (21°C), 50% RH	2-3 Hours	2-3 Hours	
Cathodic Disbondment, 30 days	<0.1 in ²	<2 mm radial	ASTM G8
Cathodic Disbondment, 250°F (121°C), 30 days, Tapecoat 7000	<0.4 in ²	<10 mm radial	ASTM G42 (modified for internal heating)
Pull Off Adhesion to Steel	>2000 psi	> 13.8 MPa	ASTM D4541 Type II
Pull Off Adhesion to FBE	>2000 psi	> 13.8 MPa	ASTM D4541 Type II
Impact Resistance	22 in*lb	2.5J	ASTM G14
Shore D Hardness	85-90	85-90	ASTM D2240
Dielectric Strength	Exceeds 12 kV (25 mil)	Exceeds 12 KV (635 μ m)	ASTM D149
Holiday Detection Setting	6250 V (25 mil)	6250 V (635 μ m)	NACE RP0274
Water Absorption	<0.5%	<0.5%	ASTM D570
Water Vapor Transmission Rate	<0.01 g/(24h*100 in ²) (25 mil)	<0.05 g/(h*m ²) (635 μ m)	ASTM E96 Procedure B
Chemical Resistance	Pass	Pass	ASTM G20
Application Temperature Range	45°F to 120°F	7°C to 49°C	
Service Temperature Range	40°F to 300°F	4°C to 149°C	

ORDERING INFORMATION

TC 7000

Kit Size	Kits Per Case	# Per Case
Pint	4	12
Quart	2	11
Gallon	2	35
400mL Cartridge*	16	35

TC REINFORCING SCRIM

Roll Size	Rolls Per Case	# Per Case
2" x 100'	24	10
4" x 100'	12	10
6" x 100'	8	10

* 300mL Resin x 100mL Hardener for spray gun application, includes static mixers