



Tapecoat®

Technical Data Sheet

DESCRIPTION

Tapecoat TC® 7100 Epoxy is a two part, 100% solids coating designed to provide protection against corrosion on pipelines with service temperatures up to 165°F (74°C). TC 7100 is an above or below grade, stand-alone coating that can be applied by brush or applicator pad to dry and damp surfaces. In above grade applications oxidation is expected, but at the recommended coating thickness long term protection will be provided. The TC 7100 was designed to provide superior adhesion to damp surfaces. TC 7100 is a fast curing epoxy allowing for backfill in 4-5 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 7100 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-TC7100-RESIN; MSDS-TC7100-HARDENER

APPLICATION

Refer to Application Guidelines: AG-EPOXIES

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TYPICAL DATA

Property	US Customary	Metric	Test Method
Color	Gray	Gray	
Coating Thickness	25 mil	635 μm	
VOC Content	0 lb/gal	0 g/l	
Pot Life @ 70°F (21°C), 50% RH	25-30 minutes	25-30 minutes	
Time to Backfill @ 70°F (21°C), 50% RH	4-5 Hours	4-5 Hours	
Cathodic Disbondment, 30 days	<0.2 in ²	<5 mm radial	ASTM G8
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 μm)	ASTM D149
Holiday Detection Setting	6250 V (25 mil)	6250 V (635 μm)	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 μm)	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 165°F	-40°C to 74°C	

ORDERING INFORMATION

TC 7100

Kit Size	Kits Per Case	# Per Case
Pint	4	12
Quart	2	11
Gallon	2	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