



Tapecoat®

Technical Data Sheet

DESCRIPTION

Tapecoat TC® Wet Bond Epoxy Mastic 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 Wet Bond Epoxy Mastic can be used below or above grade on dry to wet surfaces. In above grade applications oxidation is expected, but at the recommended coating thickness long term protection will be provided. It is a high build, standalone coating that can be applied by brush or applicator pad. The TC Wet Bond Epoxy Mastic was designed to provide superior adhesion to wet and fresh water submerged surfaces. The TC Wet Bond Epoxy Mastic is also well suited for salt water splash zones (non-submerged). A 40 mil coating can be applied in one application. Wet Bond Epoxy Mastic is a fast curing epoxy allowing for backfill in 4-6 hours at 70° F and 50% RH.

SUBSTRATE COMPATIBILITY

Steel, Stainless Steel, Ductile Iron, Other Metals, FBE, CTE

RECOMMENDED USE

Ideal for protecting girth welds, fittings, flanges, valves, and all types of piping and metal structures.

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 Wet Bond Epoxy Mastic 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-TC-WET-BOND-EPOXY-MASTIC-RESIN; MSDS-TC-WET-BOND-EPOXY-MASTIC-HARDENER

APPLICATION

Refer to Application Guidelines: AG-EPOXIES

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REGISTERED COMPANY

TYPICAL DATA

Property	US Customary	Metric	Test Method
Color	Black	Black	
Coating Thickness	40 mil	1000 μm	
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	4-6 Hours	4-6 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*lbF	2.5J	ASTM G14
Shore A Hardness	90-100	90-100	ASTM D2240
Dielectric Strength	Exceeds 12 kV (40 mil)	Exceeds 12 KV (1000 μm)	ASTM D149
Holiday Detection Setting	7900 V (40 mil)	7900 V (1000 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 Wet Bond Epoxy Mastic

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