



Tapecoat®

Technical Data Sheet

DESCRIPTION

Tapecoat M50 is a 50 mil black or gray polypropylene mesh-backed, cold applied, below grade coating designed to provide superior soil stress resistance. The coating provides protection against corrosion and electrolysis on metal substrates. The mesh backing allows the coating to conform well to the pipe surface but does not stretch or elongate which gives the M50 its exceptional strength against soil stress.

Tapecoat M50 has an integrated primer; the primer is in the adhesive. This exclusive formulation allows for faster application as there is no need to apply a separate primer when application temperatures are above 40°F. The Tapecoat M50 coating system is VOC free when applied without a primer. When used with Tapecoat Omniprime the coating system will meet even the strictest environmental laws.

RECOMMENDED USE

Appropriate for coating and reconditioning small to large diameter pipe, bends and metal structures, as a single component coating below grade. M50 is especially well suited for reconditioning field coated pipe and coating pipe in areas with high soil stress conditions.

SUBSTRATE COMPATIBILITY

Steel, Stainless Steel, Ductile Iron, Other Metals, FBE, PE, PP

SURFACE PREPARATION

SSPC SP-2 Hand Tool Cleaning, SSPC SP-3 Power Tool Cleaning or SSPC SP-6/NACE No. 3 Commercial Blast Cleaning

OPTIONAL PRIMER

Tapecoat M50 has an integrated primer to allow for quick, easy and permanent adhesion. When required by the job specification or when application temperatures are below 40°F, a 4 mil WFT of Tapecoat Omniprime may be applied to the pipe surface to ensure the required bond.

REFERENCE

Tapecoat M50 meets all of the performance criteria listed in the most recent revisions of:

NACE SP0109 (Reinforced Polymeric Tapes)

SAFETY

Refer to Material Safety Data Sheet: MSDS-TC-GRAY

APPLICATION

Refer to Application Guidelines: AG-COLD-APPLIED-ELASTOMERIC-TAPE

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Typical Technical Data

Property	US Customary	Metric	Test Method
Total Thickness	50 mils	1.27 mm	ASTM D1000
Backing Thickness	10 mils	0.25 mm	ASTM D1000
Adhesive Thickness	40 mils	1.02 mm	ASTM D1000
Cathodic Disbondment, 30 days	<0.4 in ² (No Primer)	<10 mm radial (No Primer)	ASTM G8
Adhesion to Primed Steel	12.5 lbf/in	2.20 N/mm	ASTM D1000
Adhesion to Backing (Self)	8 lbf/in	1.41 N/mm	ASTM D1000
Tensile Strength	75 lbf/in	13.1 N/mm	ASTM D1000
Elongation	10%	10%	ASTM D1000
Dielectric Strength	Exceeds 12 kV	Exceeds 12 kV	ASTM D149
Holiday Detection Setting	8800 V	8800 V	NACE RP0274
Impact Resistance	14 in lb	1.6 J	ASTM G14
Puncture Resistance	200 lbf	890 N	ASTM D1000
Water Vapor Transmission Rate	<0.01 g/(24h*100 in ²)	<0.05 g/(h*m ²)	ASTM E96 Method B
Water Absorption	<0.5%	<0.5%	ASTM D570
Leachable Chlorides	None	None	
Service Temperature Range	-20° F to +140° F	-29° C to +60° C	

M50 can be ordered with a gray and black polypropylene mesh backing. The M50 Black is wound so that the release liner is on the inside of the roll (mesh facing out). The M50 Gray is wound so that the release liner is on the outside of the roll (adhesive facing out).

ORDERING INFORMATION

M50 Black and Gray

Roll Size	Rolls Per Case
2" x 50'	12
4" x 50'	6
6" x 50'	4

CASE PACKAGING
1.0 SQ (100 ft²) per case
Case Weight: 35 lbs