CHASE Construction Products

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HT/MB

Cold Applied Tapes

Butyl Adhesive

Tapecoat®

Technical Data Sheet

DESCRIPTION

Tapecoat HT/MB (High Temperature, Mesh Backed) Tape is a 40 mil polypropylene mesh-backed, cold applied, below grade coating designed to provide superior soil stress resistance on pipelines with service temperatures up to 300˚F (149˚C). 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 giving the HT/MB its exceptional strength against soil stress.

Tapecoat HT/MB must be applied using a 50% minimum overlap and it requires the use of a primer prior to application.

RECOMMENDED USE

Appropriate for coating and reconditioning small to large diameter pipes, bends and metal structures, as a single component coating below grade. HT/MB is especially well suited for high temperature environments, 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

SURFACE PREPARATION

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

When using Tapecoat 7000: 2.5—4 mil anchor profile; cleaning per SSPC SP-10/ NACE No. 2 Near White Blast

PRIMER

Tapecoat HT/MB requires a primer to allow for permanent adhesion. A 4 mil WFT of Tapecoat Omniprime should be applied and allowed to dry prior to application of the tape. For applications where the service temperature is expected to be above 180˚F (82˚C), a 6-10 mil thickness of Tapecoat 7000 Epoxy must be used as the primer. The tape should be applied to the epoxy once the epoxy is dry to the touch, but before it is fully cured. See the application guideline for more details.

REFERENCE

Tapecoat HT/MB 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-HIGH-TEMP

APPLICATION

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

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Typical Technical Data

Property	US Customary	Metric	Test Method
Total Thickness	40 mils	1.02 mm	ASTM D1000
Backing Thickness	10 mils	0.25 mm	ASTM D1000
Adhesive Thickness	30 mils	0.77 mm	ASTM D1000
Cathodic Disbondment, 180°F (82°C), 30 days, Omniprime	<0.4 in^2	<10 mm radial	ASTM G42
Cathodic Disbondment, 300°F (149°C), 30 days, Tapecoat 7000	<0.4 in^2	<10 mm radial	ASTM G42 (modified for internal heating)
Adhesion to Primed Steel	15 lbf/in	2.64 N/mm	ASTM D1000
Tensile Strength	75 lbf/in	13.1 N/mm	ASTM D1000
Elongation	10%	10%	ASTM D1000
Dielectric Strength	Exceeds 20 kV (50% overlap)	Exceeds 20 kV (50% overlap)	ASTM D149
Holiday Detection Setting	11,200 V (50% overlap)	11,200 V (50% overlap)	NACE RP0274
Impact Resistance	30 in lb (50% overlap)	3.4 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 Procedure B
Water Absorption	<0.5%	<0.5%	ASTM D570
Leachable Chlorides	None	None	
Service Temperature Range With Omniprime With Tapecoat 7000	 -20°F to +180°F -20°F to +300°F	 -29°C to +82°C -29°C to +149°C	

ORDERING INFORMATION

Roll Size	Rolls Per Case
2” x 50’	12
4” x 50’	6
6” x 50’	4

CASE PACKAGING
1.0 SQ (100 ft^2) per case
Case Weight: 32 lbs