



Protecto Wrap®

110 Torch Applied Pipe Tape

**Fabric Reinforced
High Conformability
High Strength
Corrosion Protection
Pipe Tape**

Protecto Wrap Pipeline Protection Systems

Protecto Wrap Company, for over 38 years has been known for its excellence in research and development and the high quality of pipeline protection materials manufactured.

Our products meet or exceed corrosion protective properties of pipe wraps for almost any job specifications and offer you the benefit of our experience and field service to back up the quality of our products.

110 Pipe Tape

Compare Features

Wide Temperature Ranges

Exceptional Mechanical Strength

Excellent Chemical Stability

High Dielectric Strength

Excellent Cathodic Disbondment Resistance

Low Moisture Absorption Rate

Polyethylene Separator Strip

Product Description

Protecto Wrap 110 pipe tape is a torch applied pipe wrap that can be used on all types and sizes of pipe application, fittings, couplings and other metal surfaces exposed to corrosion, below grade. This tape can be hand applied using either a spiral or cigarette wrap technique.

110 is a modified bitumen reinforced with a strong inert fabric mat to form a wrap of high mechanical strength and excellent resistance to corrosion.

This pipe wrap is interwound with a separator strip to insure even distribution of the coating as well as easy unwinding in almost any temperature range. 110 tape is designed to be installed as a hot application over Protecto Wraps #1170 primer.

Protecto Wrap 110 pipe wrap can be applied over a wide range of temperatures from 20° F to 120° F, making this product ideal for applications where a pipe wrap of high mechanical and corrosion preventative qualities is required.



110 Pipe Tape

Application Procedures

Field Joints

1. First remove several inches of Kraft paper adjacent to the field joint, and clean joint area surface of foreign elements.
2. Apply Protecto Wrap #1170 primer with a brush to the cleaned surface and about 2" back on each end of the factory coating.
3. Remove the separator strip from the tape for about 6"; when the primer becomes tack free, begin the wrap.
4. Heat 110 tape with a wide mouth propane torch or other low heat source by passing the flame rapidly over the surface of the coating. As you heat the tape, wrap with the spiral method using a 50% overlap to obtain a normal 140 mil thickness.
5. Where a 140 mil coating is not required, use a minimum overlap single ply application to obtain an approximate coating thickness of 70 mils.
6. After the joint has been wrapped, the entire outer surface of the 110 tape should be lightly flashed with the torch to seal the coating.
7. The separator strip can be discarded as you wrap, or applied as a final outer wrap.

PRECAUTION: When the adhesive of the 110 pipe wrap becomes glossy from the torch heat, the tape is ready for application to the primed pipe. DO NOT OVER HEAT THE TAPE.

Product Technical Data

General Properties

Thickness	70 ± 5 mil
Bond to Steel	Excellent
Bond to Itself	Excellent
Conformability	Good

Temperature Ranges

Application	20° F to 120° F
In Service	-30° F to +160° F

Moisture Resistant Properties

Test	Value	Method
Moisture Vapor Transmission	0.09G/M - 24 hrs.	ASTM-E-96B
Water Absorption	0.2% Maximum - 24 hrs.	ASTM-D-570

Electrical Properties

Test	Value	Method
Dielectric Strength	1 Thickness - 5,000 volts	ASTM-D-149
Volume Resistivity	(ohm/cm) Greater than 10 ¹⁴	ASTM-D-257
Insulation Resistance	(Megohms) 1,000,000	ASTM-D-1000

Cathodic Disbondment Properties

Test	Value	Method
Salt Crock Solution 30 Days	Passes	ASTM-G8-69TA

Physical Properties

Test	Value	Method
Total Thickness	70 ± 5 mils	N.A.
Tensile Strength	860 lbs. per sq. in. average	ASTM-D-882
Elongation	20% Minimum	ASTM-D-882
Tar Softening Point	210° F	ASTM-D-36
Bond to Primed Steel	Peel Strength Exceeds Tensile Strength	ASTM-D-903

Chemical Resistance

Environment	Resistance
Hot and Cold Water	Insoluble
Hot and Cold Brine	Insoluble
Alcohols	Insoluble
Inorganic Acids	Resistive
Alkalis	Resistive
Bacteria	Resistive
Fungus	Resistive
Solids	Resistive
Marine Life	Resistive
Rodents	Resistive

Standards Approvals

AWWA C203-78 Mod. AWWA standard for Coal Tar Protective Coatings and Linings for underground steel Water Pipelines - Enamel and Tape - Hot Applied.

110 Tape

Products and Packaging

Width	Roll Length	Rolls Per Carton	Weight Per Carton	Sq. Per Carton
2"	50'	24	112 lbs.	2
4"	50'	12	112 lbs.	2
6"	50'	8	112 lbs.	2
8"	50'	4	82 lbs.	1.3
9"	50'	4	85 lbs.	1.5
12"	50'	4	112 lbs.	2
18"	50'	2	85 lbs.	1.5
24"	50'	2	112 lbs.	2
30"	50'	1	70 lbs.	1.25

Pipe Wrap Coverage Data

Lineal Feet of Pipe Coated Per Roll - 2 Ply - 50% Overlap

Nominal Pipe Size	2" Wide Tape	4" Wide Tape	8" Wide Tape
1/2"	18.81		
1"	11.57		
1 1/2"	8.49	16.44	
2"		13.40	
2 1/2"		11.08	
3"		9.10	
4"		7.08	10.62
6"		4.81	7.21
8"		3.69	5.54
10"		2.96	4.44
12"		2.50	3.74

These are net area quantity figures. Allowance for Covering adjacent coating, etc., should be included in quantity survey of field requirements.

Pipe Wrap Coverage Data

Lineal Feet of Pipe Coated Per Roll - 1 Ply - Minimum Overlap

Nominal Pipe Size	2" Wide Tape	4" Wide Tape	8" Wide Tape
1/2"	37.75		
1"	23.14		
1 1/2"	16.99	32.88	
2"		26.80	
2 1/2"		22.16	
3"		18.22	
4"		14.16	21.24
6"		9.62	14.42
8"		7.38	11.08
10"		5.92	8.88
12"		5.00	7.48

These are net area quantity figures. Allowance for Covering adjacent coating, etc., should be included in quantity survey of field requirements.