



Protecto Wrap[®]

320 Cold Applied Pipe Tape

**Multi-Temperature
High Strength
Corrosion Protection
Pipe Wrap
Specially Formulated
for Extreme
Cold Weather**

Protecto Wrap Pipeline Protection Systems

Protecto Wrap Company for over 35 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 benefits of our experience and field service to back up the quality of our products.

320 Pipe Tape

Compare Features

Cold Application
Wide Temperature Ranges
High Conformability
Excellent Chemical Stability
Exceptional Mechanical Strength
High Dielectric Strength
Excellent Cathodic Disbondment Resistance
Low Moisture Absorption Rate
Self Healing Properties
Rapid Overlap Bond

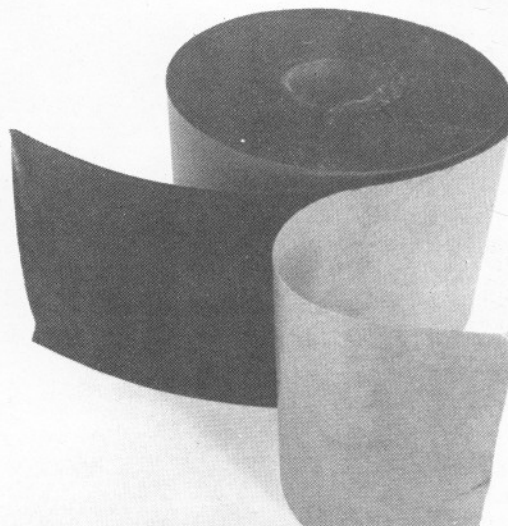
Product Description

Protecto Wrap's 320 pipe tape is a cold applied pipe wrap that can be used in all types and sizes of pipe applications for protection against moisture and corrosion and can be hand applied using either a spiral or cigarette wrap technique.

320 tape is an elastomer-based product manufactured by a special process in which synthetic elastomers and resins are blended to form a wrap of high tack ability, excellent conformability to rough or irregular surfaces and is self healing for punctures under many conditions.

A special high strength film is bonded to the outer surface of 320 tape which provides exceptional mechanical strength, easy handling, abrasion resistance to rough soil or aggregate particles and improved conformability.

A backing separator sheet removes easily, keeps the bonding surface fresh and is removed during application for easier handling. Protecto Wrap 320 pipe wrap can be applied over a wide temperature range from -30°F to $+140^{\circ}\text{F}$ making this product ideal for almost any type of pipe wrap under almost any temperature and climatic conditions.



320 Cold Applied Pipe Tape

Application Procedures:

1. Clean the pipe surface to be wrapped of all dirt, rust and foreign elements by the normal wire brush method.
2. Remove about 2" of kraft paper or whitewash from each end of the mill or yard coating.
3. Apply Protecto Wrap primer to the cleaned surface with a paint brush, roller or spray about 2" back on each end of the factory coating. For best results use Protecto Wrap 1000 Primer.
4. After the primer becomes tack free to dry, remove the backing separator from the tape for about 6"; with the film covered side of the tape up, begin the spiral wrap.
5. Remove and discard the backing separator from the tape as you wrap.
6. Use only enough pull on the tape to conform it properly to irregular surfaces of the pipe or fitting. If excessive pull is used, wrinkles and excessive stretching of the tape will be evident.
7. When the end of the wrap is reached, release all pull on the tape and cut the tape. Smooth the end into place over the previous lap.
8. Lightly press overlap seams to insure a firm contact and bond.
9. When using a cigarette wrap for 320 tape, follow all instructions above.
10. When wrapping pipe to be jacked or pushed under crossing, always start and end joint with tape at a 90° angle to the pipe.

Product Technical Data

Typical Values

Thickness	35 ± 5 mils and 50 ± 5 mils
Tack	Excellent
Bond to Primed Steel	Excellent
Adhesion to Backing	Excellent
Conformability	Excellent at application temperatures to -30°F

Temperature Ranges

Application	-30°F to +140°F
In Service	-40° +180°F

Moisture Resistant Properties

Test	Value	Method
Moisture Vapor Transmission	.06 grams/sq.m./24 hrs.	ASTM-E-96-B

Electrical Properties

Test	Value	Method
Dielectric Strength	1 Thickness >15,000 volts	ASTM-D-149
Volume Resistivity	(ohm/cm) Greater than 10 ¹²	ASTM-D-257

Cathodic Disbondment Properties

Test	Value	Method
Salt Crock Solution for 30 Days	Little to no cathodic disbondment	ASTM-G8-72

Physical Properties

Test	Value	Method
Tensile Strength	200 lbs. per sq. in.	ASTM-D-882
Elongation	300% Minimum	ASTM-D-882
Tar Softening Point	220°F	ASTM-D36
Bond to Primed Steel	Peel Strength Exceeds Tensile Strength	ASTM-D-903

The information and values listed under Product technical data are averages and should not be considered exact values.

320 Tape

Products and Packaging

Width	Roll Length	Rolls per Carton	Weight per Carton	Squares per Carton
2"	50'	24	52	2
4"	50'	12	52	2
6"	50'	8	52	2
8"	50'	4	35	1.33
9"	50'	4	41	1.5
12"	50'	4	52	2
18"	50'	2	41	1.5
24"	50'	2	52	2
30"	50'	1	34	1.25

Pipe Wrap Coverage

Spiral Wrap

Lineal Feet of Pipe Coated per Roll

Nominal Pipe Size	2" Wide Tape		4" Wide Tape		6" Wide Tape		8" Wide Tape	
	1/2" Lap	50% Lap	1/2" Lap	50% Lap	1/2" Lap	50% Lap	1/2" Lap	50% Lap
1/2"	28.44	18.94						
3/4"	22.71	15.15						
1"	18.08	12.04						
1 1/4"	14.37	9.58	33.53	19.16				
1 1/2"	12.57	8.38	29.34	16.77				
2"			23.41	13.38				
2 1/2"			19.33	11.05				
3"			15.92	9.10				
4"			12.38	7.07	19.45	10.61		
5"			10.00	5.71	15.71	8.57		
6"			8.40	4.80	13.20	7.20		
8"			6.45	3.69	10.15	5.53	13.84	7.38
10"			5.18	2.96	8.14	4.44	11.11	5.92
12"			4.37	2.50	6.86	3.74	9.36	5.00

Cigarette Wrap

Lineal Feet of Pipe Coated per Roll

Nominal Pipe Size	12" Wide Tape		18" Wide Tape		24" Wide Tape		30" Wide Tape	
	1/2" Lap	50% Lap	1/2" Lap	50% Lap	1/2" Lap	50% Lap	1/2" Lap	50% Lap
8"	20.12	10.06	30.18	15.09	40.24	20.12	50.30	25.15
10"	16.16	8.08	24.23	12.12	32.31	16.16	40.39	20.19
12"	13.62	6.81	20.42	10.22	27.23	13.62	34.04	17.03
14"	12.40	6.20	18.60	9.30	24.80	12.40	31.00	15.50
16"	10.85	5.42	16.28	8.13	21.70	10.85	27.13	13.56
18"	9.65	4.83	14.48	7.24	19.31	9.65	24.13	12.07
20"	8.68	4.34	13.02	6.51	17.36	8.68	21.70	10.85
22"	7.89	3.94	11.83	5.91	15.77	7.89	19.72	9.86
24"	7.28	3.64	10.92	5.46	14.56	7.28	18.20	9.10
26"	6.68	3.34	10.01	5.01	13.35	6.68	16.69	8.34
30"	5.79	2.89	8.68	4.34	11.57	5.79	14.47	7.23
34"	5.11	2.55	7.66	3.83	10.21	5.11	12.77	6.38
36"	4.82	2.41	7.23	3.62	9.64	4.82	12.05	6.03

On pipe sizes 10" through 36", "Cigarette Wrap" application is recommended. Quantities shown allow 10% additional material for side and top overlaps.

Technical Assistance

For application conditions and coverages not shown in this brochure, or for any information you need, please feel free to call on us for technical assistance and information at any time from our laboratory and field staff experts.