

DENSOTHERM TAPE

Hot Applied Pipeline Tape

Description

Densotherm Tape is a hot applied bituminous tape. It is comprised of a non-woven synthetic fabric fully impregnated and coated with a flexible, high melting point bitumen compound.

Uses

Densotherm is suitable for use above or below ground for protecting pipes, fittings, welds and bends. The tape is applied with the aid of a propane gas torch.

Features

- Excellent adhesion to pipe and self
- Excellent resistance to cathodic disbonding
- Good impact resistance
- Good conformability
- Hot applied
- Compatible with common pipe coatings

Application

Prepare surfaces by removing all loose scale, rust or other foreign matter by grit blasting or wire brush. Surface must be clean, dry and free of grease. Apply a thin film of Denso Primer D to all surfaces to be wrapped and allow to dry. Begin wrapping using a reverse spiral wrap, at the same time, apply a flame torch to side of tape that is in contact with the surface. Then, apply heat to form a gloss-like texture to the outside of tape upon completion of wrapping. A minimum 1" (25 mm) overlap should be used. For severe environments, a 55% overlap is recommended.

For step down of sleeve application: The thickness of a steel sleeve to pipe can be approximately 3/4" - 1" (18.75 - 25 mm) therefore Denso Weld Bead Filler Tape can be used to provide a gradual contour from sleeve to pipe. Apply Denso Weld Bead Filler Tape circumferentially with a 50% overlap starting at the end of the sleeve and proceeding minimally 12" (300 mm) past each side of the sleeve onto the pipe. Apply as many layers circumferentially as needed to create a gradual step down effect from each side of the sleeve. Press down and mold the adhesive into the annular space around the end of the sleeve making sure the tape is in contact with the sleeve. In colder weather, a light heating of the adhesive with a propane torch of the Weld Bead Filler Tape will be required to achieve more conformability and tackiness. In warmer weather, no heating of the bitumen adhesive is required. After a gradual step down is achieved apply Densotherm using a 6" (150 mm) roll to the entire area including the steel sleeve and on top of the Denso Weld Bead Filler Tape.



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Property Specifications

PROPERTIES	ENGLISH	METRIC
Thickness (ASTM D1000)	79 mils	2.0 mm
Weight	.41 lbs/ft ²	2.0 kg/m ²
Breaking Strength (ASTM 1000)	51.4 lbf/in.	9 N/mm
Tear Strength (ASTM 1004)	11.2 lbf	50 N
Elongation @ Break	12%	12%
Adhesion Peel Strength (ASTM D1000)		
To Primed Steel	13.7 lbf/in.	2.4 N/mm
To Self	13.7 lbf/in.	2.4 N/mm
Impact Strength (ASTM G-14)	5.9 ft lb	8.0 Nm
Dielectric Strength	20 kV	20 kV
Maximum Service Temperature	176°F	80°C
Recommended Holiday Test Voltage		
Single Layer	10 kV	10 kV
Double Layer	14 kV	14 kV
Roll Widths	2" to 12"	50 to 300 mm
Roll Length	50 ft	15 m
Recommended Primer	Denso Primer D	

Quantity Estimates

Tape Width	Rolls*/ Case	Coverage with 1" (25 mm) Overlap	Coverage with 50% Overlap
in.	ea.	ea.	ea.
2" (50 m)	12	45 ft ² /case (4m ² /case)	45 ft ² /case (4 m ² /case)
4" (100 m)	6	75 ft ² /case (7 m ² /case)	45 ft ² /case (4 m ² /case)
6" (150 m)	4	82 ft ² /case (7.6 m ² /case)	45 ft ² /case (4 m ² /case)
12" (300 m)	2	90 ft ² /case (8.4 m ² /case)	45 ft ² /case (4 m ² /case)

*All rolls are 50 feet (15 m) in length.



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