PRODUCT DATA SHEET

Densopol 80 & 80HT Tape

Heavy Duty PVC/Bitumen Fabric-Reinforced Tape

Description

Densopol 80 & 80 HT are extremely tough cold-applied laminate tapes. The combination of PVC backing and fabric reinforced polymer bitumen adhesive makes it extremely resistant to damage by sharp objects e.g. poor backfill.

Uses

For the corrosion protection of buried or immersed pipes and fittings. The tapes can be applied by hand to weld joints, bends, bare pipe lengths and pipe fittings.

Features

- Cold applied
- Good comformability
- Good impact resistance
- Excellent adhesion to pipe and self
- Excellent resistance to cathodic disbonding
- Compatible with common pipe coatings
- Suitable for application by hand or machine on medium or large diameter pipes

Application

Prepare steel to St2 (power brushed)/AS 1627 P.2 (minimum). Apply thin film of Denso Primer D to all surfaces to be protected and allow to tack dry. Peel back interleaving and apply adhesive side of the tape to the primed surface and press down. Apply the tape spirally with enough tension to make it conform. Remove interleaving as wrapping proceeds. Overlap each turn by 55% to achieve double thickness.

Irregular surfaces such as valves, flanges, etc. may require the use of Denso Bitumen Mastic, Denso Mastic or Denso Profiling Mastic. Refer to the product sheets for specific product for information on application.

Denso®

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Property Specifications

Properties	Densopol 80 Value	Densopol 80HT Value
Thickness (ASTM D1000)		
PVC Carrier	*0.50 mm*	-
Reinforcement & Adhesive	*1.50 mm*	-
Total	*2.0 mm*	*1.85 ± 0.25 mm*
Weight	*2.40 kg/m²*	*2.28 ± 0.20 kg/m²*
Breaking Strength @ 23°C (ASTM 1000)	*9 N/mm*	*8 N/mm min*
Breaking Strength @ 40°C (ASTM 1000)	-	*5 N/mm*
Tear Strength (ASTM 1004)	*36 N*	*70 N min*
Elongation @ Break (ASTM D1000)	*22%*	*22%*
Adhesion Peel Strength (ASTM D1000, 24 h)		
To Primed Steel @ 23°C	*2.2 N/mm*	*3.0 - 5.0 N/mm*
To Primed Steel @ 50°C	-	*0.4 N/mm*
To Self @ 23°C	*2.2 N/mm*	*2.0 - 4.0 N/mm*
To Self @ 50°C	-	*0.3 N/mm*
Insulation Resistance	*10⁶ megohms*	*10⁶ megohms*
Impact Strength @ 23°C (Double layer, ASTM G14)	*9 Nm*	*8 Nm min*
Impact Strength @ 40°C (Double layer, ASTM G14)	-	*5 Nm*
Indentation Resistance (Double layer, DIN 30672 Pt. 1 Class C)		
Residual Thickness @ 23°C	-	*0.8 mm*
Residual Thickness @ 40°C	-	*0.5 mm*
Continuity @ 15 kV After Indentation	-	*Pass at 23°C & 40°C*
Dielectric Strength	*20 kV/layer*	*20 kV/layer*
Resistance to Cathodic Disbondment (ASTM G8, Method A, 23°C. 30 day)	*Excellent*	*20 mm radius max*
Water Vapour Transmission (Double Layer, ASTM E96 32°C/50% RH)	-	0.55 g/m²/day
Temperature Range		
For Application	*8°C to 45°C*	*18°C to 50°C*
For Service	*-20°C to 60°C*	*-10°C to 60°C*
Recommended Holiday Test Voltage		
Single Layer	*10 kV*	*10 kV*
Double Layer	*15 kV*	*15 kV*
Recommended Primer	Denso Primer D	Denso Primer D
Colour (Backing)	Black	Black

Quantity Estimates

Tape Width	Tape Length	Rolls/ Case	Coverage with 55% Overlap
in.	ft.	ea.	ea.
2" (50 mm)	33' (10 m)	24	59 ft² (5.5 m²)/case
4" (100 mm)	33' (10 m)	12	59 ft² (5.5 m²)/case
6" (150 mm)	33' (10 m)	8	59 ft² (5.5 m²)/case

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