TECHNICAL DATA SHEET

DENSO GLASS OUTERWRAP™

Protective Fiberglass Outerwrap

Description

Denso Glass Outerwrap is a fiberglass-cloth wrap impregnated with a water-activated resin. It has excellent performance against abrasion, gouge, and impact to protect Denso anti-corrosion coatings during and after installation in many construction applications.

Uses

- Used as a protective outerwrap for Denso petrolatum tapes and Viscotaq products.
- Used as a protective outerwrap over Denso products in applications involving underground pipes, aboveground pipes, soil-to-air, and piles that are above and below water.
- Used for a variety of other applications where additional mechanical protection is required.

Features

- Prevents damage to anti-corrosion coatings
- Rapid application and curing time
- Easy to apply and no messy cleanup
- It can be applied to dry, underwater, and wet surfaces
- Outstanding abrasion, gouge and impact resistant
- No mixing or VOCs
- Quick, long-term protection, ready for immediate service
- It can be top-coated for aesthetics
- Resistant to water, acid, salts, and soil organics
- CSA Z245.30 component

Surface Prep

Prepare surfaces by removing all loose scale, rust or other foreign matter in accordance to SSPC SP2 “Hand Tool Cleaning” or SP3 “Power Tool Cleaning”. High pressure water wash of 3,000 - 7,000 psi (20.68-48.26 MPa) is also suitable.

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Application

Spirally wrap a layer of Denso Petrolatum Tape with a minimum 1" (25 mm) overlap. For severely corrosive environments, a 55% overlap is recommended. While wrapping, press air pockets out and smooth all lap seams. Using rubber gloves, remove the Denso Glass Outerwrap from the hermetically sealed foiled pouch and soak in temperate water (salt or fresh) for 20 to 30 seconds. Remove from water and begin wrapping product tightly on substrate, overlapping a recommended 50%.

Irregular surfaces such as valves, flanges, etc. may require the use of Densyl Mastic, Denso Profiling Mastic, or ViscoMastic prior to product application to transition diameter variations. Refer to the technical data sheets for these specific products for information on application and selection.

If a smooth finish is required, a final temporary double layer of Denso Poly-Wrap shall be immediately applied over the uncured Denso Glass Outerwrap. This allows all seams of the Denso Glass Outerwrap to lay out more smoothly and provides a tighter cured seal. If needed, once compressed, use the Denso Perforating Tool or equivalent to puncture the Denso Poly-Wrap to allow excess resin, moisture, and CO_2 to escape during the reaction. The Denso Poly-Wrap should be removed after approximately 15 to 30 minutes, depending on temperature.

Storage

24 months when stored in original packaging @ 41°F (5°C) to 90°F (32°C). Do not store in direct sunlight.

Cleaning

Remove any resin immediately from any contaminated surface using a clean, dry cloth. If a solvent is required, use xylene or dibasic ester or comparable solvent containing essentially no water.

HSE

Refer to SDS before use. Always refer to project specifications as they may supersede Denso specifications.

Packaging

Tape Width	Tape Length	Rolls*/ Case	Coverage with 50% Overlap
in.	ea.	ea.	ea.
3" (75 mm)	9' (2.7 m)	100	113 ft^2/case (10.7 m^2/case)
4" (100 mm)	30' (9 m)	40	200 ft^2/case (18.4 m^2/case)
8" (200 mm)	40' (12 m)	15	200 ft^2/case (18.4 m^2/case)

*Other widths and lengths available upon special request.

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Tech Data

Properties	Imperial	*Metric*
Thickness	11 mils avg.	*0.28 mm*
Flexural Strength (ASTM D790)	26,100 psi	*180 MPa*
Tensile Strength (ASTM D3039)		
Strength	33.1 ksi	*228 MPa*
Modulus	2.39 Msi	*16.5 GPa*
Strain	1.43%	*1.43%*
Tabor Abrasion (ASTM D4060)		
Wear Index	57.1 mg/1000 cycles	*57.1 mg/1000 cycles*
Thickness Loss (After 1000 Cycles)	2.96 mils	*75 microns*
Initial Thickness Avg.	34 mils	*0.86 mm*
Compression Strength (ASTM D 695)	29.3 ksi	*202 MPa*
Lap Shear Strength (ASTM D 5868-01R14)	1.75 ksi	*12.1 MPa*
Dielectric Strength (ASTM D 149)	160 V/mil	*6300 V/mm*
Impact Resistance (NACE SP 0394)	99.6 ft-lb	*135 J*
Maximum Service Temperature	250°F	*121°C*
Setting Time		
@ 70°F (21°C)	30 minutes	*30 minutes*
@ 90°F (32°C)	15 minutes	*15 minutes*

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