Denso Glass Outerwrap HD UV

UV Protective, Heavy-Duty Fibreglass Outerwrap

Composition

Denso Glass Outerwrap HD UV is a woven-roving fiberglass wrap impregnated with a water-activated, aliphatic polyurethane resin.

Uses

Denso Glass Outerwrap HD UV is used:

- as a protective outerwrap for Denso petrolatum tapes and Viscotaq products,
- as a field applied ARO coating for HDD or boring applications,
- 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,
- for a variety of other applications where additional mechanical protection is required, and
- in applications where protection from UV exposure is important.

Characteristics

Denso Glass Outerwrap HD UV:

- provides UV resistance,
- prevents damage to anti-corrosion coatings,
- provides rapid application and curing time,
- is easy to apply with no mixing or messy cleanup,
- can be applied to dry, underwater or wet surfaces,
- has excellent abrasion, gouge and impact resistance,
- resistant to water, acid, salts and soil organics,
- contains no solvents,
- provides a quick, long term protective coating,
- is ready for immediate service,
- can be top-coated for aesthetics, and
- is a CSA Z245.30 component.

Surface preparation

Surfaces must be clean and dry. Remove all loose, rust, scale and flaking coatings or other foreign matter by scraping, wire brushing, high pressure water washing or blast cleaning.

Application

See *Instructions for Use* for additional detail.

Using rubber gloves, remove the Denso Glass Outerwrap HD UV 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 tightly on the substrate, overlapping a recommended minimum 50%. To expedite cure time, spray water (the warmer the better) to the Denso Glass Outerwrap HD UV during application. Thereafter a final temporary double layer of Denso Poly-Wrap shall be immediately applied with tension over the uncured Denso Glass Outerwrap HD UV. This allows all seams of the Denso Glass Outerwrap HD UV 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 for excess resin, moisture and CO_2 to escape during the reaction. The Denso Poly-Wrap should be removed after approximately 1 to 2 hours, depending on temperature and use a water spray during application.

For 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 product data sheets for these specific products for information on application and selection.

Availability

Tape width	Roll length	Rolls/ carton	Approx. coverage with 50% overlap
200 mm	12.0 m	10	12.33 m^2/case

Other sizes may be available on request.

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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.

Storage
Shelf life is minimum 24 months when stored in original packaging at 5°C to 32°C. Do not store in direct sunlight.

Waste material
Please make sure any unused product and any resin remaining in the foil pouch is fully cured before discarding as waste. Please apply the waste hierarchy to avoid or minimise waste wherever possible. Please do not discard waste material, including packaging, in the surrounding environment. Follow all relevant legislation for disposal.

Typical Properties

Thickness	0.61 mm	
Flexural Strength	180 MPa	ASTM D790
Tensile Strength		ASTM D3039
Strength	220 MPa	
Modulus	17.9 GPa	
Strain	1.31%	
Tabor Abrasion		ASTM D4060
Wear index	81.5 mg/1000 cycles	
Thickness loss (after 1000 cycles)	95 microns	
Initial thickness avg.	1.2 mm	
Compression Strength	274 MPa	ASTM D695
Lap Shear Strength	15.6 MPa	ASTM D5868-01R14
Dielectric Strength	8700 V/mm	ASTM D149
Impact Resistance	126 J	NACE SP 0394
Maximum service temperature	121°C	
Setting time		
@ 21°C	2.5 hours	
@ 32°C	1 hour	

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