

DENSO BORE-WRAP

Field-Applied Abrasion Resistance Overcoat (ARO)

Description

Denso Bore-Wrap protects field joint coatings from the abrasion stresses and scarring of directional drilling, HDD and boring. Bore-Wrap creates an abrasion resistant, sacrificial outer laminate which protects pre-approved field joint coatings and mainline coatings such as epoxies, shrink sleeves, and FBE.

Uses

Field applied ARO. Minimises the need for spot repairs or re-pulling of the pipe, while providing the best mechanical protection of the underlying field-joint and mainline coatings.

Features

- Eliminates coating damage
- Controlled set time
- 100% solids content
- Smooth profile
- Outstanding abrasion, gouge and impact resistance
- Resistant to aggressive soil conditions

Application

Follow the anti-corrosion coating manufacturer's recommended installation procedure. When using a two-part epoxy resin system as the anti-corrosion coating, Bore-Wrap should be applied within the manufacturer's re-coat window to minimise additional surface preparation requirements. Roughen existing coating to degloss before application of Bore-Wrap, where required. Do not open the foil pouch containing Bore-Wrap until you are ready to use product.

Hold the end of the tape firmly to the surface of the pipe at the starting point. The starting point shall be a minimum of 100 mm or greater beyond the edge of the anti-corrosion coating on each side. The Bore-Wrap application shall overlap onto the factory coating to bridge between it and the field applied coating. Begin Bore-Wrap application with the tape being applied from the lower edge of the roll to help maintain proper pressure. Keep roll as close to the pipe's surface as possible. Wrap two complete layers using 100% overlap, spraying each layer of Bore-Wrap with water as it is applied. Proceed to spirally wrap using a 50% overlap, spraying each layer with water as it is applied. Do not reverse the direction of the wrap before completing the entire application length.

Apply four layers of compression film in the same direction the layers of Bore-Wrap were applied. Perforate the compression film using a perforator or wire brush to allow the CO₂ by-product to be released. After initial cure, remove the compression film.

Using a Durometer, measure the Shore D of the Bore-Wrap to confirm it has reached full cure (70) before pulling the pipe.



Denso Bore-Wrap

Property Specifications

PROPERTIES	VALUE
Colour	White, Grey
Thickness (per layer)	0.86 mm
Resin Type	Moisture Curing Urethane
Application Temperature	0 to 65°C
Working Time (24°C)	12 min
Set Time (24°C)	30 min
Impact Resistance (ASTM-G14 (2.54 mm))	47.6 J
Abrasion Resistance (ASTM D-4060 (cycles/mil))	1667
Gouge Resistance (Partech - 50 kg load)	Pass
Product Size	250 mm x 9.1 m (standard)*

*Other sizes available on request: 150 mm x 9.1 m, 150 mm x 18 m, 250 mm x 18 m
Lead times vary subject to freight and order quantities for non-standard sizes.

SHELF-LIFE: 1 year with proper storage

STORAGE: Store in original, unopened packaging in a cool shaded area at ambient temperature of 23°C. Do not expose to temperature above 44°C, or below 5°C. Do not open bag containing Bore-Wrap until you are ready to use it, as Bore-Wrap cures when exposed to atmospheric moisture/humidity.

Care must be taken when handling the sealed bags to prevent puncturing or scuffing. If the protective foil pouch is punctured, the composite wrap will cure within the sealed foil pouch.

COLD WEATHER INSTALLATIONS: Follow procedure, however, use ethylene glycol in the sprayer (instead of water) to speed the curing process. Bore-Wrap will not cure on its own at temperature below 5°C.

HOT WEATHER INSTALLATIONS: Follow procedure, however, use ice water in the sprayer to slow down the curing process, thus allowing the installer more working time.



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