



# DENSO BORE-WRAP™

FIELD-APPLIED ABRASION RESISTANT  
OUTERWRAP (ARO)

## SUITABLE FOR:

- Trenchless Installation
- HDD and Boring
- Directional Drilling
- Field Joint Coatings
- Shrink Sleeves
- Mainline Coatings



# APPLICATION INSTRUCTIONS



1

## STEP 1

Prepare surfaces by removing all loose scale or other foreign matter in accordance with SSPC-SP2 "Hand Tool Cleaning" as a minimum. Surface preparation beyond SSPC-SP2 is encouraged whenever practical, to enhance the long term coating performance.



2

## STEP 2

Wet the surface of the area that the roll will be applied to using a water sprayer. Ethylene glycol or propylene glycol may be used when the temperature is near or below 0°C (32°F). Bore-Wrap™ is water activated, it is necessary that water is continuously sprayed onto the surface and underside of the roll as it is being applied.



3

## STEP 3

Begin wrapping 150mm (6") in front of the field joint coating, with the omni-directional matting surface facing out. The woven structured (checker board) side of the fibre is to be placed facing the surface of the pipe. Wrap the Bore-Wrap circumferentially to begin with, ensuring that the leading edge has a minimum of 2 layers. Then proceed across the field joint, wrapping with a minimum 50% overlap until the wrap has extended 150mm (6") beyond the field joint coating. Then do a final circumferential wrap and end with the fibre on top of fibre (do not leave a single layer hanging from the back).



4

## STEP 4

Ensure the Bore-Wrap is completely saturated and then immediately begin wrapping Denso™ Clear Outerwrap over the Bore-Wrap quickly and with tension applied. Overlap each end of the Bore-Wrap by at least 50mm (2") to ensure that the ends lay flat and the resin can be retained. Two to three wraps should suffice.



5

## STEP 5

Once fully compressed, use Denso's perforating tool to puncture the Denso Clear Outerwrap. This will allow for excess resin, moisture, and CO<sub>2</sub> from the reaction to escape. Perforate using enough pressure to get through the Denso Clear Outerwrap but not through the layers of Bore-Wrap.



6

## STEP 6

Allow the roll to remain under compression while it cures. Resin may have escaped through the perforations, that resin is an indicator of the materials dry to touch time. Once the material has fully cured, the Denso Clear Outerwrap may be removed. Cure can be checked by using a Shore D gauge on a high point of the resin (avoid measuring near ridges and fibres as the gauge tip can move). The product is ready to be used at a Shore D of 65 or greater.

**\*\*Note** - Please review the installation specification sheet for Denso Bore-Wrap for complete application instructions. Contains Di-isocyanates. Safety Datasheet available on request.



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