WrapidBond®

Anti-corrosion system for protection of steel substrates

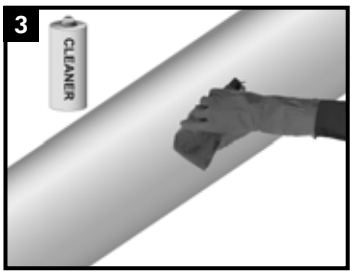
Product Description

WrapidBond® is typically shipped in bulk rolls and is protected from damage and contamination by an inner roll core and a special release liner. WrapidCoat® products are supplied separately.

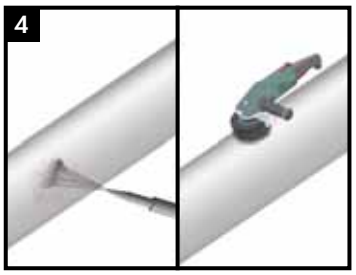
Equipment List

Appropriate tools for surface abrasion (wire brush, grit blaster); Standard safety equipment; gloves, goggles, hard hat, etc; Power wire brush, grinder, abrasive paper; Knife, rags

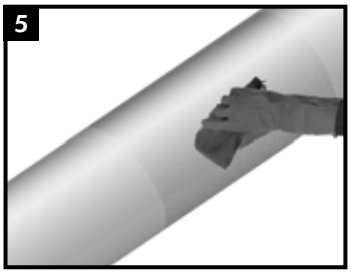
Surface Preparation



Clean exposed steel and adjacent pipe coating with cleaner to remove the presence of oil, grease, and other contaminants if present. Ensure that the pipe is dry prior to mechanical cleaning.

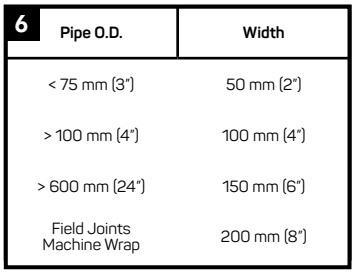


The steel surface should be cleaned using a power wire brush to a minimum St 2 finish prior to coating application. Severely contaminated surfaces should be thoroughly cleaned by abrasive blasting to a "medium blast" Sa 2 surface. Factory coating edges should be abraded for a minimum width of 150 mm from the cutback edge or tie-ins to existing coatings using abrasive paper or a grinder with a 40-60 grit flapwheel disc and should be beveled to eliminate the vertical edge.



After cleaning, wipe clean or air blast the steel surface and pipe coating to remove foreign contaminants.

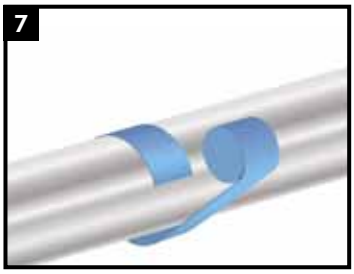
Product Use Chart



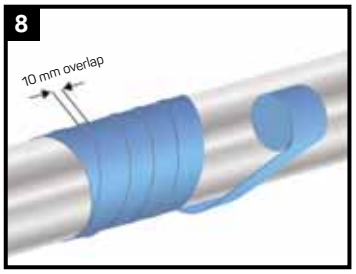
Pipe O.D.	Width
< 75 mm (3")	50 mm (2")
> 100 mm (4")	100 mm (4")
> 600 mm (24")	150 mm (6")
Field Joints Machine Wrap	200 mm (8")

Choose product width based on pipe diameter and type application using the above chart as a guideline. Project requirements and applicator preference may specify alternate widths.

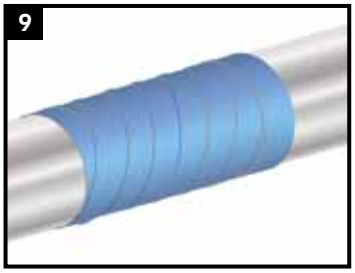
Product Application - Rehabilitation WrapidBond®



Apply the first wrap of WrapidBond® circumferentially around the pipe at a 90° angle, overlapping the tie-in or factory coating by a minimum of 100 mm.

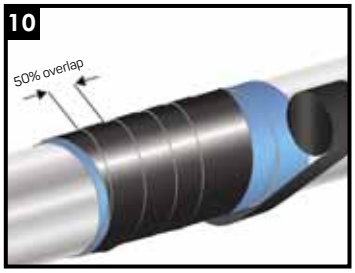


Apply subsequent wraps with a minimum overlap of 10 mm (or as otherwise specified), and with a 50% overlap over girth-weld areas. Press or roll lightly over the entire coated area.

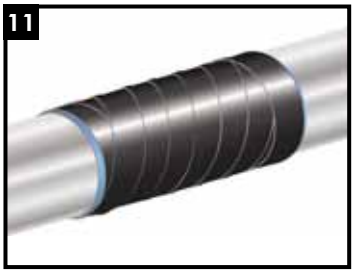


Continue application with light to moderate tension. Finish with a circumferential wrap applied at 90° to the pipe length, overlapping any adjacent existing coatings by a minimum of 100 mm.

Outer Wrap WrapidCoat® PVC or PE

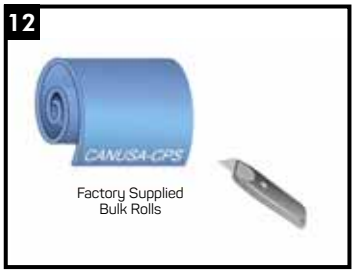


Apply the first WrapidCoat® PVC or PE circumferentially around the pipe at a 90° angle, leaving ~ 3mm (1/8") of WrapidBond® exposed. Continue application with a 50% overlap at moderate tension.



End with a circumferential wrap applied at 90° to the pipe length.

Product Application - Field Joints



Measure the circumference of the of pipe and cut two (2) lengths of WrapidBond® at a length equal plus 75mm (3"). For wide cutbacks, additional wraps may be required.

Application - WrapidBond®

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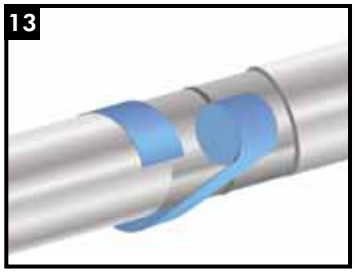

Wrap the first length circumferentially around the pipe overlapping the mainline coating by a minimum of 75 mm (3") and with one edge completely covering the weld bead plus 25mm (1") beyond the edge of bead. Press or roll lightly over the coated area.

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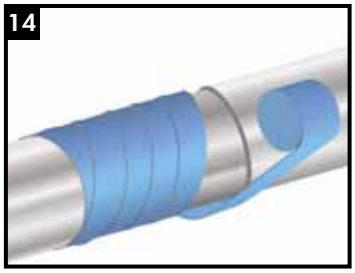

Wrap the second length circumferentially around the pipe overlapping the first length by a minimum of 50mm (2") such that 2 layers of Wrapid Bond completely cover the weld bead and overlap the mainline coating by a minimum of 75 mm (3"). Press or roll lightly over the coated area.

Outer Wrap Application Options 1 or 2

Option 1. WrapidCoat® PVC or PE

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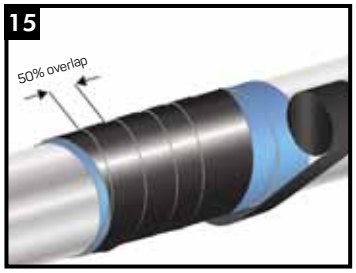

Apply the first layer circumferentially around the pipe at a 90° angle, leaving ~ 3mm (1/8") of WrapidBond® exposed. Continue application with a 50% overlap at moderate tension.

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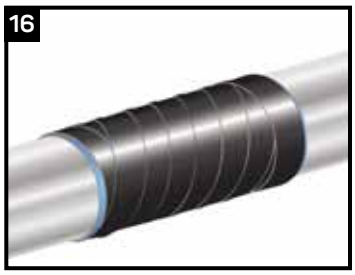

End with a circumferential wrap applied at 90° to the pipe length.

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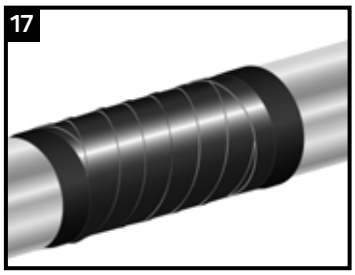

Apply a circumferential wraps around the pipe at a 90° angle at each end overlapping the factory coating by 50% of the tape width.

Option 2. Scar-Guard®

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Water is needed to activate Scar-Guard®. Open the foil pouch, remove the roll. Once opened, the product cannot be repackaged. Scar-Guard® is activated using a water sprayer to mist and wet each layer as it is wrapped.

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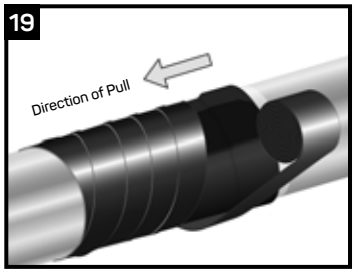

Starting at the leading edge, begin the application at a distance of 150mm (6") past the corrosion coating edge. Extend the wrap 50mm (2") beyond the corrosion coating on the trailing edge. Apply the first wrap circumferentially around the pipe at a 90° angle then begin spiral wrapping with a 50% overlap following the wrapping guideline that is printed on the roll. Apply pressure during application by pulling firmly on the roll as it is applied. Squeeze and mold firmly in the direction of the wrap until tight.

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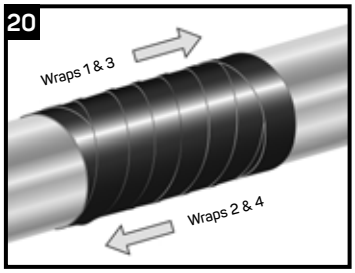

End with a circumferential wrap applied at 90° to the pipe. For high shear or impact requirements, additional layers may be required. To create thinned edges for directional drilling, reduce the overlap in the last 100mm - 150mm of the edges to 10-20% rather than 50%.

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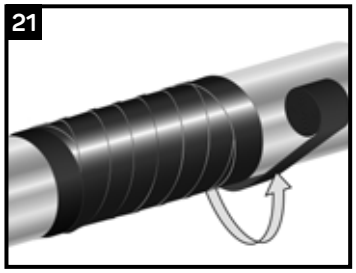

Apply compression film in the same direction as the previous layers with a 50% overlap. Start min. 50mm (2") beyond the outer edge of the Scar-Guard®, pulling firmly during application.

NOTE: Compression film should be applied before excess foaming is observed from the Scar-Guard®. A second installer should begin this step and follow the Scar-Guard® installer(s) as they progress with the wrapping of the pipe. The resin should be compressed and the film perforated as quickly as possible.

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Perforate the compression film using a wire brush (or other perforating device) by tapping firmly on the tape with the metal bristles. Perforation allows the CO^2 gas generated by the curing process to escape. Compression film may be removed after material hardens and either discarded or left in place.

Backfilling Guidelines

1. After application of WrapidCoat® PVC or PE, backfilling can be done immediately.
2. Once the Scar-Guard® has cured, to a minimum hardness of Shore D 70, the pipe can be backfilled.

Storage & Safety Guidelines

To ensure maximum performance, store Canusa products in a dry, ventilated area. Keep products sealed in original cartons and avoid exposure to direct sunlight, rain, snow, dust or other adverse environmental elements. Application of Wrapid Bond™ is best at temperature between 15°C-25°C. Product installation should be done in accordance with local health and safety regulations.

These installation instructions are intended as a guide for standard products. Consult your Canusa representative for specific projects or unique applications.

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