Materials and equipment

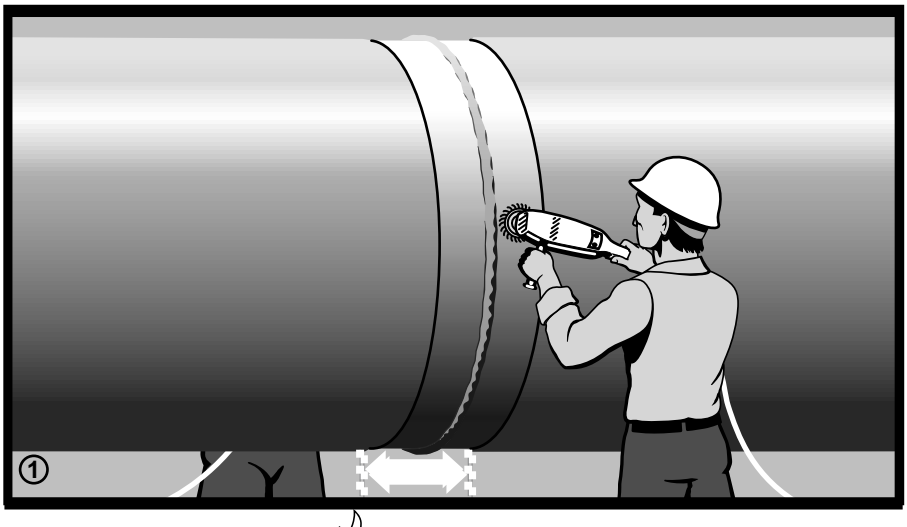
1. Appropriate size WaterWrap and WPCP IV closure patch
2. When recommended (see data sheet), appropriate size of 931 filler
3. CovalenceRaychem torch (or equivalent)
4. Propane gas tank, hose, regulator and gauge
5. Standard safety equipment such as gloves, goggles, hard hat, etc.

Installation has to be done according to local government regulations and usual safety precautions.

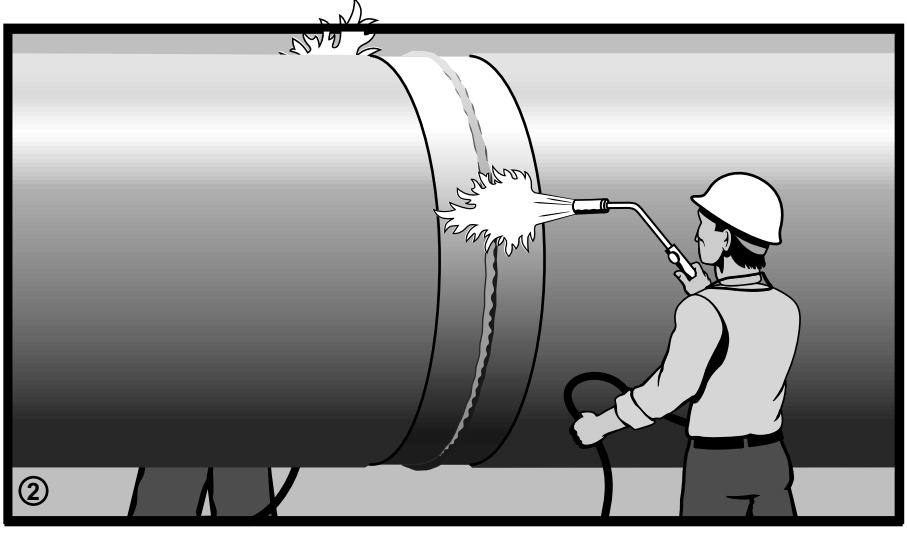
For proper selection of Covalence CPG joint protection materials, see Product Selection Guide or contact Covalence CPG.

Sleeve application

① Clean exposed steel and adjacent pipe coating to be covered by WaterWrap with a hand or power wire brush, to remove loose and foreign materials. Wiping may be necessary to remove the particles from cleaning.
Note:
Coal tar - remove outer paper wrap 5" (125 mm) to 6" (150 mm) adjacent to cut-back to expose coal tar.
Painted coatings - remove whitewash paint on the surface of coating to be covered by WaterWrap.



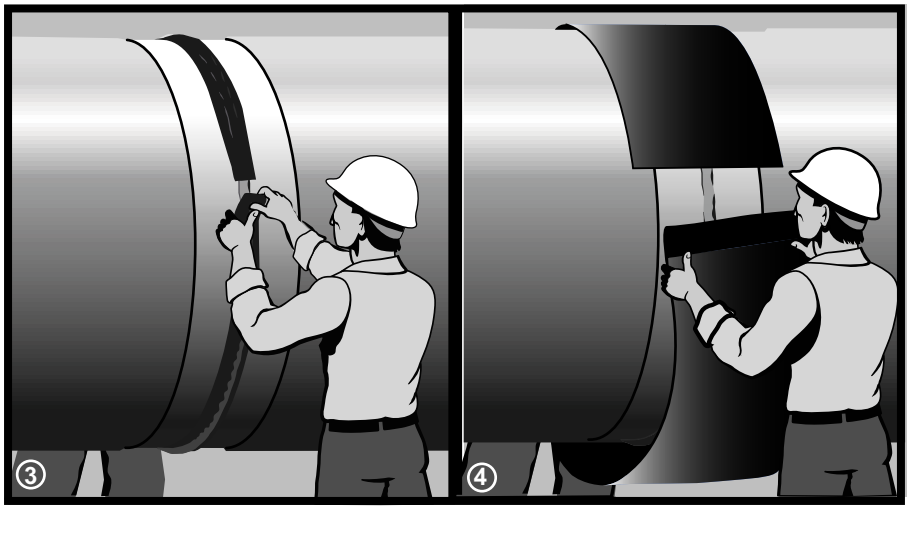
② Preheat joint area until hot to the hand, approximately 68°F (20°C) minimum. Preheating reduces installation time and eliminates surface moisture for bonding.
Note:
Two people working on opposite sides of the pipe are recommended for installing sleeves on pipe 16" (400 mm) in diameter and larger.
Note:
Preheat is only necessary below 68°F (20°C). The function of preheat for the WaterWrap is primarily to remove excess moisture. In many cases, p reheat is not required. If filler will be use, follow step 3, otherwise go to step 4.

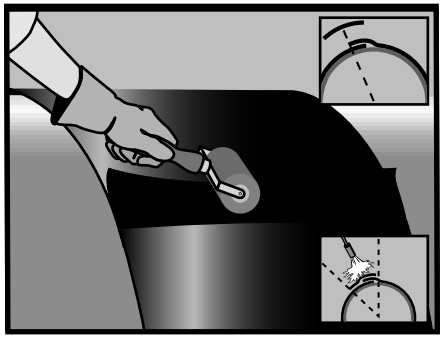


③. When recommended (refer to data sheet), apply the 931 filler around the weld bead area overlapping 4” at the end, then follow the instructions to apply the sleeve (step 4)

④. Remove the protective release plastic from the coated sleeve. Center sleeve over the weld so it is evenly overlapping adjacent pipe coating. Wrap snuggly around pipe so that the CovalenceRaychem logo runs around the pipe.
Note:

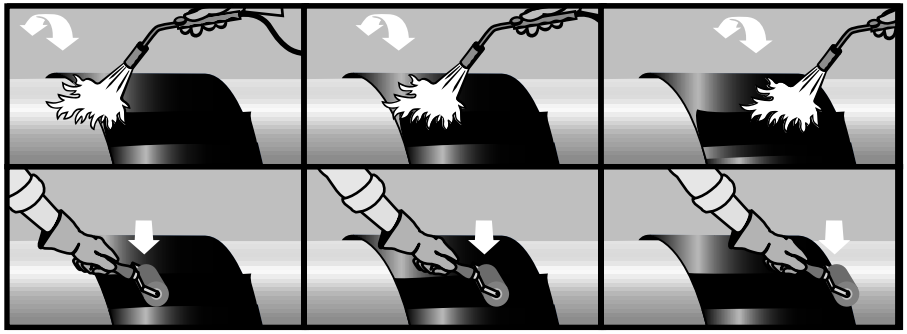
1) Clean overlap area of the sleeve to remove dirt and other foreign materials.
2) Edges of sleeve should extend 2" or more onto adjacent pipe coating.
3) Overlapping ends of sleeve should align evenly.
4) Position overlap to permit easy access for installing closure.
5) WrapFill filler material should be used for all stepdowns.
6) Ensure that the overlap onto the adjacent coating is 2-4" (50 to 100mm) for diameters up to 48". For larger diameters, use a 6-8" (150 t0 200mm) overlap.





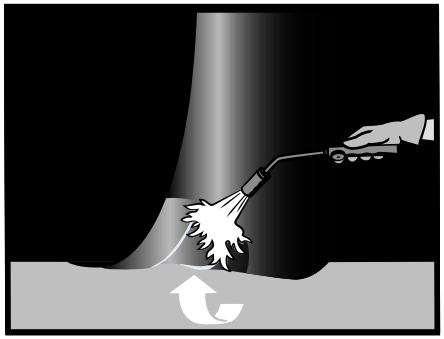
WPCP IV closure application

1. Press WPCPIV closure in position, centering over the exposed sheet end. (For UNISLEEVE products, the closure is pre-attached and already centered in position.)
The sheet should overlap the sheet (excluding closure) by 2" (50 mm) minimum.



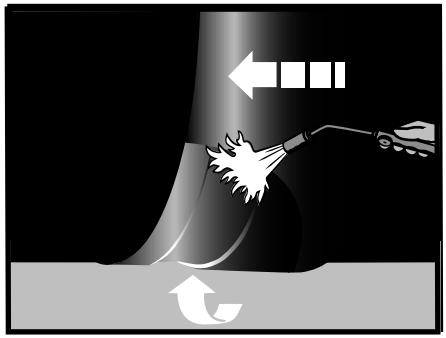
2. Using a CovalenceRaychem torch (or equivalent), adjust flame length to approximately 20" (500 mm) to produce a blue tipped yellow flame. Using the yellow portion of the flame, heatthe closure evenly until the pattern of the fabric reinforcement is visible.

With gloved hand and roller, smooth any wrinkles by working outward from the center. Roller accessory should additionly be used to force out entrapped air both on the closure and sleeve.

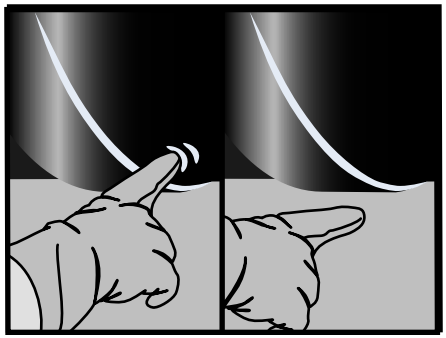


Sleeve recovery

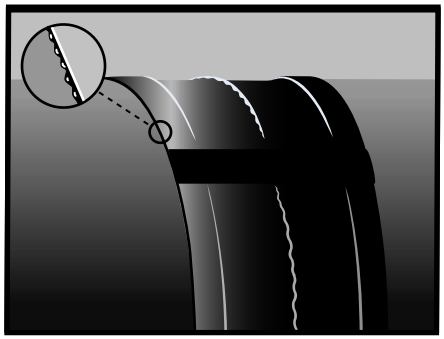
1. Using the CovalenceRaychem torch (or equivalent), begin at the center of the sleeve and heat circumferentially around the pipe, using a constant paintbrush motion, until the embossed pattern on the sheet surface has changed to a smooth surface.



2. Continue heating toward one end of the sleeve, followed by the other.
Note:
Sleeve may be recovered starting at one end and proceeding toward the opposite end, depending on conditions (i.e., wind).



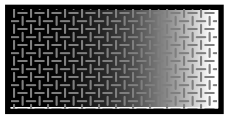
3. During shrinkdown, occasionally check adhesive flow with a finger. Wrinkles should disappear automatically. Remember to wear gloves.
Note:
While sleeve is hot, press or roll overlap and closure area to remove any air voids.



4. Sleeve is fully recovered when all of the following have occured:
1) The WaterWrap has a smooth surface.
2) There are no cold spots on the sleeve surface.
3) Weld bead profile can be seen through the sleeve.
4) After sleeve is cool, mastic flow is evident on both edges.
5) The sleeve has fully conformed to the pipe and adjacent coating.
6) The pattern on the backing has disappeared and the backing has a smooth surface.

Note: The Water Wrap has a permanent change indicator (PCI).

PCI The Dimpled or Embossed Backing, when heated with the minimum adequate heat to install the WaterWrap, becomes smooth, but remains black.



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