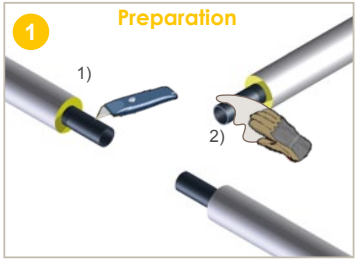
Composition of the i7 kit:

- 1 T-shaped, drilled HDPE muff
- 2 heat-shrinkable sleeves

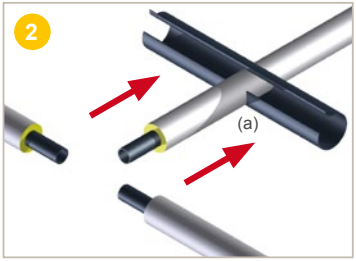
- 1 box of Polyol
- 1 box of Isocyanate
- 1 mixing spatula

- 1 vent plug
- 1 female closure plug
- 1 male closure plug
- 1 closure patch (FOPS)

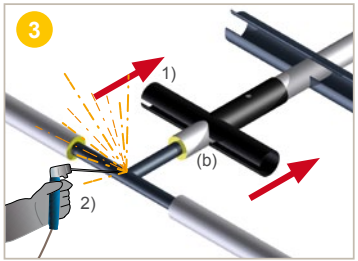
i7 Straight T-branch insultation kit



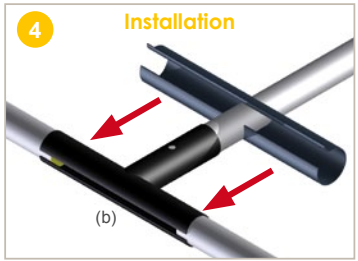
1) **Scrape** the PUR foam off the front (all signs of damp PUR foam must be removed from the 3 ends).
2) **Clean** the 3 ends of the pipes or parts with a cloth to remove any water, mud or sand.



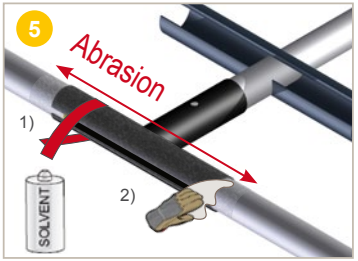
Slide the large heat-shrinkable sleeve (a) onto the branch pipe.



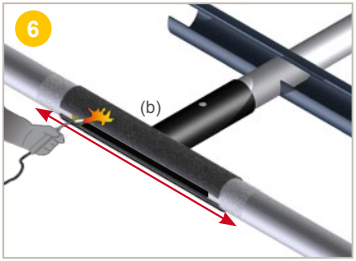
1) **Slide** the T-shaped HDPE muff (b) onto the branch pipe, pushing it along a sufficient distance.
2) **Align** the pipes and weld the 3 steel pipes together according to professional standards.



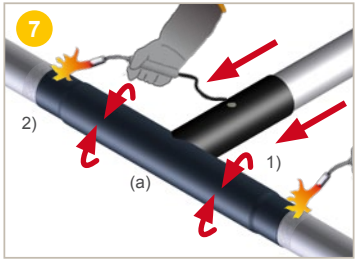
Slide the T-shaped HDPE muff (b) and fit it on the tapping.
⚠ Make sure that the steel weld has cooled down before sliding the muff.



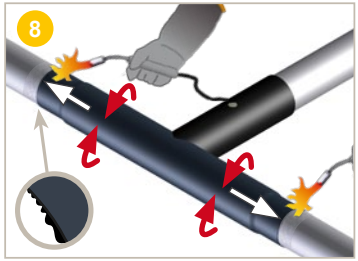
1) **Roughen** the surfaces (muff + casing 50 mm on each side) with abrasive paper (grain 40-60) or a wire brush.
2) **Clean** and **degrease** the roughened surfaces with a cloth dipped in ethanol (min. 94 %).



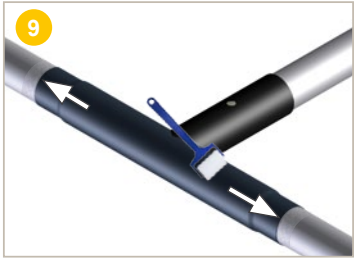
Use a blowtorch to **warm** the surfaces to be covered (muff + casing 50 mm on each side) up to at least 65 °C.
Check the temperature on all surfaces with a thermometer.



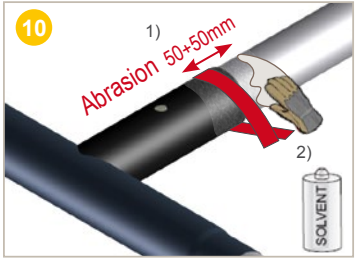
1) **Slide** the large heat-shrinkable sleeve (a) around the T-shaped HDPE muff (b).
Remember to remove the protective film.
2) **Shrink** the heat-shrinkable sleeve around its circumference using large movements, starting at the centre.



Continue **heating** starting from the centre and going towards the ends until shrinking is complete.
Finish with horizontal movements over the whole surface of the sleeve.
Shrinking is complete when the adhesive projects out of each end of the sleeve.

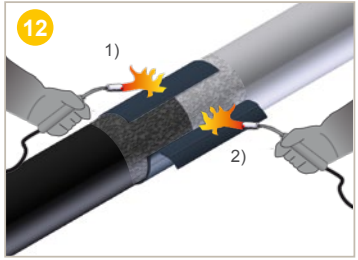


While the sleeve surface is still hot and malleable, use the application roller to smooth and evacuate the air bubbles.

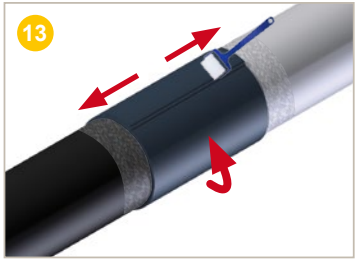


1) **Roughen** the surfaces (50 mm muff + 50 mm casing) with abrasive paper (grain 40-60) or a wire brush.
2) **Clean** and **degrease** the roughened surfaces with a cloth dipped in ethanol (min. 94 %).

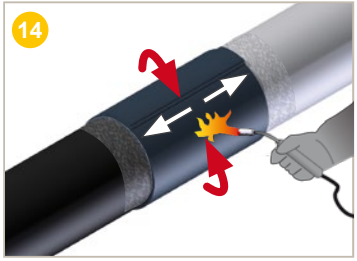
Fit the heat-shrinkable sleeve so that the overlap lies between the 10 o'clock and 2 o'clock positions.
⚠ Respect the implementation direction using the indicator. large diameter muff side, small diameter pipe side.
Remember to remove the protective film.



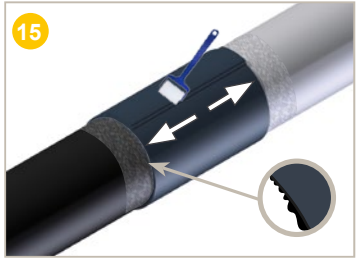
Leave 1 to 2 cm clearance to ensure correct shrinkage.
1) **Warm** the overlapping part of the heat-shrinkable sleeve slightly.
2) Then **warm** the adhesive of the other part of the sleeve called the "adhesive patch".



Press both ends of the heat-shrinkable sleeve firmly.
Remove the air bubbles with an application roller on the closure.



1) **Shrink** the sleeve around its circumference using large movements, starting at the centre. Use a single blowtorch for diameters <= 450 mm and 2 blowtorches for diameters > 450 mm.
2) Continue **heating** starting from the centre and going towards the ends with horizontal movements.

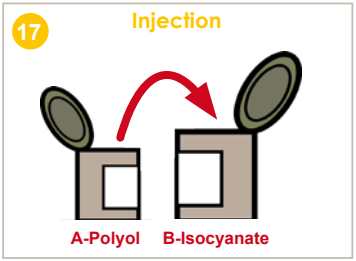


Use the application roller to smooth and evacuate the air bubbles. Use the same procedure on the closure.
Shrinking is complete when the adhesive projects each side of the sleeve and when the entire surface of the sleeve has no openings, holes or cracks.

⚠ It is recommended to perform an airtightness test at 0.2 bar using a hand pump and pressure gauge. If this is impossible, make a visual check. It is essential to allow the materials to cool down to ambient temperature before injecting polyurethane foam.

Straight T-branch insultation kit

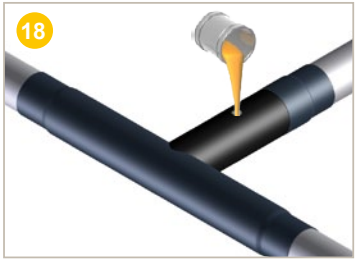
17



Take components **A** and **B** out of the kit boxes and check the diameters.

⚠ Check the kit use-by date. Pour component **A** into component **B**, **mix** together using the spatula supplied. The mixture is ready when it is homogeneous, with no signs of different colours.

18



Pour the mixture into one of the 26 mm diameter HDPE end of line muff injection holes.

Make sure all of the mixture is removed, using the spatula supplied.

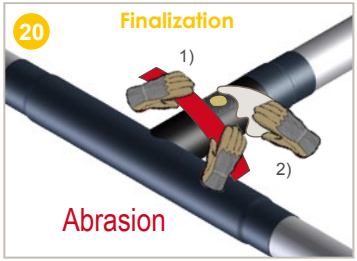
19

1) **Push** the vent plug fully into the injection hole.

2) As soon as the expanded mixture has hardened, remove the plug with the tab provided.

Clean off any excess PUR foam.

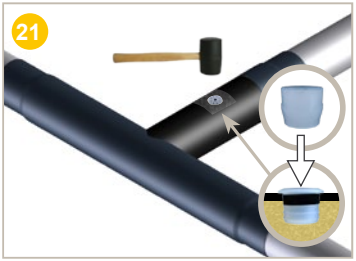
20



1) **Roughen** the surfaces to be covered (hole Ø + 50 mm on side) with abrasive paper or a wire brush.

2) **Clean** the roughened surface to remove any polyethylene or sand particles with a dry cloth (or blow off with the flame).

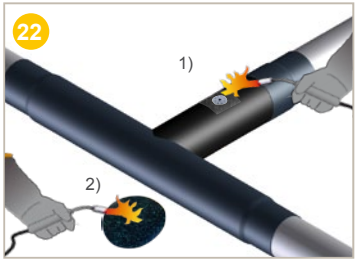
21



1) **Press** the female closure plug by hand fully into the HDPE muff injection hole.

2) Then knock the male closure **plug** into the female closure plug with a mallet.

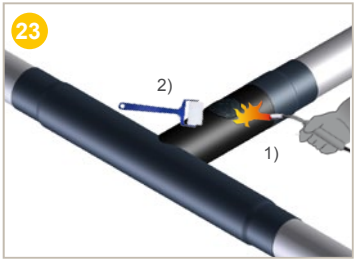
22



1) Use a blowtorch to warm the surfaces to be covered (hole Ø + 50 mm on side) up to at least 65 °C. Check the temperature with a thermometer.

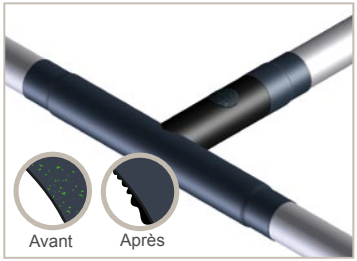
2) Heat slightly (2 to 3 seconds) the closure patch (FOPS) on the side opposite the coloured dots and then glue it onto the plug.

23



Finalise the bonding by warming until the coloured dots of the FOPS disappear

While the closure patch (FOPS) is still hot and malleable, use the application roller to **smooth** and **evacuate** the air bubbles.



The system is correctly installed when:

• The entire closure patch (FOPS) is in contact with the surfaces to be protected.

• The adhesive is visible all around the closure patch.