

COVALENCE[®] R-WPC-C30

Live lines – Condotte in esercizio

Product Information

Product description: Covalence[®] R-WPC-C30, field-joint coatings.

Construction:

- **Base layer:** butyl based single component corrosion protective liquid.
- **Heat shrinkable sleeve:**
Adhesive: Visco-elastic butyl-based adhesive.
Backing: Radiation cross-linked, high density polyethylene with *PCI* (Permanent Change Indicator).

Covalence[®] R-WPC-C30 is a wraparound heat-shrinkable sleeve ready-to-fit assembly for the corrosion protection of field girth weld joints in distribution and transmission networks, for use especially in low shear or low stress environments and in moderate climates. Covalence[®] R-WPC-C30 is compatible with most commonly used steel pipe coatings and is used for girth weld protection of live lines.

WPC may be cut to the appropriate length to cover all pipe diameters. The installation is carried out directly on the cleaned pipe surface. On live lines Covalence[®] S1800 is applied prior to the sleeve application. During installation, the heat-shrinkable sleeve is wrapped around and shrunk to form a tight fit around the joint. During recovery, the adhesive softens and flows to form a perfect bond with the pipe surface providing protection against corrosion. The radiation cross-linked outer layer forms a tough barrier against mechanical damage and moisture transmission.

Features:

- Proven functionality.
- Excellent aging performance.
- Superior cathodic disbondment and hot water immersion resistance.
- No special equipment (standard gas torch & a roller).
- Dimpled backing provides a “permanent change” indicator for application of heat.

Benefits:

- Installation friendly in combination with high functional performance.
- Offers the optimum barrier protection against corrosion.
- Makes installation fast and easy. Keeps installation costs low.
- Dimpled backing allows easy post-heat inspection and offers a reliable inspectability at any time.

Product selection guide

Max operating temperature	65°C
Compatible line coatings	PE, PP, FBE, Tape & Coal Tar
Min. preheat temperature	No pre-heat on live lines
Recommended pipe preparation	SA 2½
Soil stress restrictions	Moderate
Performance	EN 12068 C30

Product properties Covalence[®] R-WPC-C30

Backing		
Property	Test method	Typical value
Tensile strength at break	ASTM D-638	22.8 MPa
Elongation at break	ASTM D-638	600 %
Hardness, Shore D	ASTM D-2240	57
Shrink force	ASTM D-638	0,28 MPa
Dielectric Strength	ASTM D-149	35 KV/mm
Water absorption	ASTM D-570	0,04%
Adhesive		
Property	Test method	Typical value
Softening point	ASTM E-28	134 °C
Shear strength	EN 12068 @23 °C @10 mm/min	> 10 N/cm ²
Installed sleeve		
Property	Test method	Typical value
Peel to steel	EN 12068 @10 mm/min	> 1.1 N/mm @ 23 °C
Cathodic disbondment	EN 12068	<1 0 mm radius @ 23 °C
Low temperature flexibility	ASTM D-2671-C	- 14 °C
Impact resistance	ASTM G-14 EN 12068 Class C	> 15 Nm
Indentation resistance	ASTM G-17 EN 12068 Class C30 (10N/mm ²)	No holiday with 10 KV detector @ 65 °C > 0.6 mm*

* Remaining coating thickness

Note: The typical values in this data sheet are based on lab prepared samples. Values shown are not to be interpreted as product specifications.

Product thickness

Backing as supplied	0,90 mm
Backing fully free recovered	1.20 mm
Adhesive as supplied	1.40 mm

OFFICIAL DISTRIBUTOR:



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