

COVALENCE[®] FLEXCLAD

Product Information

Product description: Covalence[®] FLEXCLAD tape is a stretchable, hand-wrapped, heat-shrinkable tape used for corrosion protection of pipe bends and also for small diameter straight pipes in distribution networks.

Construction: Multi wrap construction:

- **Adhesives:** Butyl mastic sealant (Flexclad)
- **Backing:** Flexible, radiation cross-linked, low density polyethylene.

The installation is carried out directly on the cleaned and prepared pipe surface without any primer. During installation, FLEXCLAD is to be wrapped spirally around the bend with a 50% overlap. The carrier is heated and shrinks tightly around the substrate; at the same time, the sealing adhesive melts and is forced into all surface irregularities, forming a thorough coating and a complete bond with the substrate.

Features:

- Different mechanical classes.
- Highly flexible.
- Compatible with varying pipe diameters.
- Self-tensioning, heat-shrinkable backing.
- No special equipment required.

Benefits:

- Provides options to the customer and allows cost savings.
- Easy to apply at both low or high temperatures & on pipes of small diameter.
- Minimizes inventory, thus saving money.
- Easy to use. Saves time.
- Keep installation costs low.

Product properties Covalence [®] FLEXCLAD		
Backing		
Property	Test method	Typical value
Tensile strength at break		
	ASTM D-638	17 MPa
Elongation at break		
	ASTM D-638	650 %
Adhesive		
Property	Test method	Typical value
Softening point		
	ASTM E-28	203°C (397°F)
Shear strength		
	EN 12068 @10 mm/min	0.1 N/mm ²
Installed sleeve		
Property	Test method	Typical value
Peel to steel		
	EN 12068 @10 mm/min	0.4 N/mm
Cathodic disbondment		
	EN 12068 30 days	13 mm radius
Impact resistance		
	EN 12068 Class B Class C	> 8 J ⁽¹⁾
Indentation resistance		
	EN 12068 Class B (>1N/mm ²) Class C (>10N/mm ²)	> 0.6 ^{(1) (2)}

(1) 50 % overlap

(2) Remaining coating thickness

Product selection guide

Max operating temperature	50°C (122°F)
Compatible line coatings	PE, FBE, PU, Tape, Coal tar
Min. preheat temperature	50°C (122°F)
Recommended pipe preparation	ST2 1/2 -ST3 or SA2 1/2 Clean, dry and free of grease
Soil stress restrictions	Moderate
Performance	EN 12068 B30

General information

Installation guide	For proper product installation, see latest installation instruction.
Handling	Handle with care. Keep boxes upright.
Storage	To ensure maximum performance, store Covalence products in a dry, ventilated area. Keep products sealed in original boxes and avoid exposure to direct sunlight, rain, snow, dust or other adverse environmental elements. Avoid prolonged storage temperatures above 40°C or below -10°C. Unlimited shelf life.

Product thickness

	FLEXCLAD
Backing as supplied	0.38 mm (0.015 in)
Adhesive as supplied	0.62 mm (0.025 in)

Information

Documentation	Extensive information is available on our web-site. Application instructions and other documentation can be obtained by contacting our head office, from our local distributor or by sending an email to info@sealforlife.com
Certified staff	Application of the described coating system should be carried out by certified personnel.

Note: Typical values in this data sheet are based on lab prepared samples. Values shown are not to be interpreted as product specifications. All properties are at 23°C unless otherwise specified.

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