

# COVALENCE® FLEXCLAD-II

## Product Information

**Product description:** Covalence® FLEXCLAD –II tapes are stretchable, hand-wrapped, heat-shrinkable tapes used for corrosion protection of pipe bends and also for small diameter straight pipes in distribution networks.

Construction: Multi wrap construction:

- **Adhesive:** High-Shear strength copolymer adhesive).
- **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-II 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 selection guide

	FLEXCLAD-II-C30
<b>Max operating temperature</b>	60°C
<b>Compatible line coatings</b>	PE, FBE, Tape & Coal Tar
<b>Min. preheat temperature</b>	90°C (194°F)
<b>Recommended pipe preparation</b>	ST3 or SA2½
<b>Soil stress restrictions</b>	None
<b>Performance</b>	EN 12068 C30 <sup>(1)</sup> EN 12068 C50 <sup>(3)</sup>

## General order information (continued)

<b>Installation guide</b>	For proper product installation, see latest installation instruction.
<b>Handling</b>	Handle with care. Keep boxes upright.
<b>Storage</b>	Store indoor, clean and dry, away from direct sunlight in a cool place below +50°C. Unlimited shelf life.

## Information

<b>Documentation</b>	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 <a href="mailto:info@sealforlife.com">info@sealforlife.com</a>
<b>Certified staff</b>	Application of the described coating system should be carried out by certified personnel.

## Product properties

Backing		
Property	Test method	Typical value
<b>Tensile strength at break</b>	ASTM D-638	22 MPa
<b>Elongation at break</b>	ASTM D-638	900%
Adhesive		
Property	Test method	Typical value
<b>Softening point</b>	ASTM E-28	94°C
<b>Shear strength</b>	EN 12068 @10 mm/min	1.20 N/mm <sup>2</sup> @ 23°C 0.5 N/mm <sup>2</sup> @ 50°C
Installed sleeve		
Property	Test method	Typical value
<b>Peel to steel</b>	EN 12068 @10 mm/min	7.6 N/mm @ 23°C 1.3 N/mm @ 50°C
<b>Cathodic disbondment</b>	EN 12068 30 days	11 mm radius @ 23°C ≤ 20 mm radius @ 50°C
<b>Impact resistance</b>	EN 12068 Class C, @ 23°C	> 15 J <sup>(1)</sup>
<b>Indentation resistance</b>	EN 12068 Class C, >10N/mm <sup>2</sup> @ 23°C @ 50°C	> 0.6 mm <sup>(1)(2)</sup> > 0.6 mm <sup>(3)</sup>

(1) 50 % overlap

(2) Remaining coating thickness

(3) 66% overlap

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

	FLEXCLAD-II-C30
<b>Backing as supplied</b>	0.5 mm (0.020 in)
<b>Adhesive as supplied</b>	0.7 mm (0.028 in)

## General order information

Covalence® FLEXCLAD type products are available  
– As a roll (closure patches included)

Example	FLEXCLAD-II-C30-50X15000	
	Designation	Standard ordering options
<b>50</b>	Roll width (mm)	35 mm (1.5"), 50 mm (2.0"), 75 mm (3.0"), 100 mm (4")
<b>15000</b>	Roll length (mm)	15000 mm = 15 m (50 ft)

## Calculated material usage

(including 50 mm overlap on the mill-applied coating)

Pipe diameter	Recommended tape width (mm)	3 D-Bend	5 D-Bend
		Tape length FLEXCLAD-II (m)	Tape length FLEXCLAD-II (m)
DN 25	35	3.10	3.40
DN 40	35	4.80	5.40
DN 50	35	6.30	7.30
DN 80	50	7.50	9.00
DN 100	50	10.60	13.20
DN 125	50	14.50	18.50
DN 150	50	18.80	24.40
DN 200	75	19.10	25.40
DN 250	75	27.20	37.00
DN 300	100	27.30	37.60

Note: For pipe sizes exceeding DN 300, the use of MEPS, WPC or HTLP is recommended.



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