

## **PRODUCT DATA SHEET**

# COVALENCE® FLEXCLAD-II

### **Product Information**

**Product description:** Covalence<sup>®</sup> 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 properti	es	
Backing		
Property	Test method	Typical value
Tensile strength at break	ASTM D-638	22 MPa
Elongation at break	ASTM D-638	900%
Adhesive		
Property	Test method	Typical value
Softening point	ASTM E-28	94°C (201°F)
Shear strength	EN 12068 @10 mm/min	1.20 N/mm <sup>2</sup>
Installed sleeve		
Property	Test method	Typical value
Peel to steel	EN 12068	7.6 N/mm
	@10 mm/min	1.3 N/mm at 50°C (122°F)
Cathodic	EN 12068	11 mm radius
disbondment	30 days	<= 20 mm radius at 50°C (122°F)
Impact	EN 12068	> 15 J <sup>(2)</sup>
resistance	Class C	
Indentation	EN 12068	
resistance	Class C (>10N/mm <sup>2</sup> )	> 0.6 mm <sup>(2) (3)</sup>
(1) 50 % overlan		

- (1) 50 % overlap
- (2) 2 X 50% overlap
- (3) Remaining coating thickness

General order information

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	
Backing as supplied	0.5 mm (0.020 in)	
Adhesive as supplied	0.7 mm (0.028 in)	

Product selection guide		
	FLEXCLAD-II-C30	
Max operating temperature	50°C (185°F).	
Compatible line coatings	PE, FBE, Tape & Coal Tar	
Min. preheat temperature	90°C (194°F)	
Recommended pipe preparation	ST3 or SA2½	
Soil stress restrictions	None	
Performance	EN 12068 C30	

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

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.

Covalence® FLEXCLAD type products are available			
As a roll (closure patches included)			
Example FLEXCLAD-II-C30-50X15000			
	Designation	Standard ordering options	
50	Roll width (mm)	35 mm (1.5"), 50 mm '2.0"), 75	
		mm (3.0"), 100 mm (4")	
15000	Roll length (mm)	15000 mm = 15 m (50 ft)	

Calculated material usage
(including 50 mm overlap on the mill-applied coating)
3 D-Rend

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		3 D-Bend	5 D-Bend
Pipe	Recommended	Tape length	Tape length
diameter	tape width (mm)	FLEXCLAD-II	FLEXCLADII
		(m)	(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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