

## COVALENCE® FCTS

### Product Information

**Product description:** FCTS, is a thick wall, heat-shrinkable tubular sleeve with high shrink ratio allowing irregular shapes to be coated easily. It is specifically useful for corrosion prevention and sealing of flanges in water distribution networks. The design of FCTS/FCWS flange protection products keeps nuts and bolts free from foreign substances (such as mastics), allowing easy re-entry and disassembly when necessary.

Construction: Two-layer system

- **First layer:** Visco-elastic mastic sealant.
- **Second layer:** Thick wall, radiation-cross-linked, high density polyethylene.

The installation is carried out directly on the cleaned and dried (pre-heated) flange & pipe surface without any primer being required. When heated, the FCTS sleeve shrinks and the sealant melts and flows forming a tight bond. The bond strength builds up during cooldown, forming a moisture-proof seal that is mechanically strong and resistant to vibration, impact, abrasion and corrosive gases & fluids.

#### Features:

- No primer required.
- Low preheat sensitivity & proven high functionality.
- Highly resistant.
- Copes with high transitions (high shrink ratio)
- Self-healing effect.
- No special equipment or skills required.

#### Benefits:

- No drying time and easy application.
- Ensures a strong bond & impervious seal.
- Minimizes inventory, thus economical.
- Makes installation fast and easy. Keeps installation costs low.

### Product selection

<b>Max operating temperature</b>	65°C (149°F)
<b>Compatible line coatings</b>	PE, PP, FBE, Tape, Coal tar, Asphalt
<b>Min. preheat temperature</b>	60°C (140°F)
<b>Recommended pipe preparation</b>	Clean, dry and free of grease
<b>Soil stress restrictions</b>	None
<b>Performance</b>	EN12068 class C30

### Product thickness

<b>Backing as supplied</b>	0.7 mm (DN80/100) 1 mm (DN150, DN200)
<b>Backing fully free recovered</b>	2 mm
<b>Adhesive as supplied</b>	1 mm

### Product properties

#### Backing

Property	Test method	Typical value
<b>Tensile strength at break</b>	EN 60684-2	13 MPa min.
<b>Elongation at break</b>	EN 60684-2	350 % min.
<b>Dielectric strength</b>	EN 60684-2	10 kV/mm min.
<b>Hardness, Shore D</b>	ISO 868	50

#### Adhesive

Property	Test method	Typical value
<b>Softening Point</b>	ASTM E-28	134°C (273°F)
<b>Shear strength</b>	EN 12068 @10mm:min	0.1 N/mm <sup>2</sup>

#### Installed sleeve

Property	Test method	Typical value
<b>Peel to Steel</b>	EN 12068 @10 mm /min	1.1 N/mm
<b>Impact resistance</b>	EN 12068	> 15 J
<b>Indentation resistance</b>	EN 12068 Class C30 (10N/mm <sup>2</sup> )	> 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.

### Ordering information

Covalence® FTS type products are available as kit with:

- a ready-to-size tubular sleeve
- a support sheet

**Example FCTS-DN150**

	Designation	Standard ordering options
<b>DN150</b>	Pipe size	DN80/100 DN150 DN200

### Application Table

Pipe OD	Max Flange OD (mm)	Min FCTS ID as supplied (mm)	FCTS width as supplied (mm)	FCTS Shrinkratio
DN80	200	245	300	67%
DN100	220	245	300	67%
DN150	285	300	300	45%
DN200	340	385	300	45%.

### Handling and Storage

<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

**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](mailto:info@sealforlife.com)

**Certified staff** Application of the described coating system should be carried out by certified personnel.