

## COVALENCE® EasySeal TPSP-PE

### Product Information

Tubular sleeve with wide installation window for sealing of pipe joints in pre-insulated pipe system.

**Product description:** EasySeal TPSP-PE is a heat-shrinkable, tubular sleeve for joint sealing of heat-shrinkable and oversized casings in standard conditions. Generally, EasySeal TPSP-PE is used as an additional outside seal against moisture ingress at casing ends.

#### Construction:

- **Adhesive:** High strength, visco-elastic sealant with low preheat for easy application..
- **Backing:** Radiation cross-linked, high density polyethylene with PCI (Permanent Change Indicator). Upon proper heating the dimples disappear permanently. Any time after, it is possible to inspect whether the sleeve during installation has been well heated and fully shrunk leaving any cold spots over its entire surface

During shrinking, the adhesive easily melts and flows, filling in the transition between the pipe jacket and the oversized casing. The adhesive ensures a firm bond between the sleeve and the pipe/casing surface. The dimpled backing permanently indicates that the sleeve is completely shrunk.

#### Features:

- High shrink force HDPE backing.
- Permanent high hoop stress of cross-linked HDPE backing.
- High mechanical resistance HDPE backing.
- No special installation equipment required.
- Individual packaging precludes contamination prior to application.
- Permanent Change Indicator.
- Over 25 years in service sealing.

#### Benefits:

- Creates tight, high performance bond and a strong seal. Secures anchoring of casing and pipe jacket.
- Easily survives temperature cycling, soil stresses, pipe movements & chemical attack. Extremely resistant!
- Easy installation: just 'slide over & shrink'.
- Stays clean and uncomplicated. Less work.
- Ensures correct application heat and allows easy post-heat inspection. Reliable inspectability at any time.
- Effective long term sealing.

### Product selection guide

<b>Max operating temperature</b>	50°C (60°C under expansion cushion)
<b>Compatible joint system</b>	Heat-shrinkable casing
<b>Recommended preheat temperature</b>	60°C
<b>Recommended pipe preparation</b>	Cleaning & Abrading
<b>Soil stress resistance</b>	Moderate
<b>Pressure testing after installation</b>	Optional
<b>Product recommended for</b>	Service lines
<b>Performance</b>	> 100 cycles acc. EN 489*

### Product properties

Backing		
Property	Test method	Typical value
<b>Tensile strength at break</b>	ASTM D-638	22.8 MPa
<b>Elongation at break</b>	ASTM D-638	600%
<b>Hardness, Shore D</b>	ASTM D-2240	57
<b>Shrink force</b>	ASTM D-638, 150°C	0.276 MPa
<b>Thermal ageing followed by elongation</b>	ASTM D-3045, 150°C ASTM D-638, 23°C	21 days > 450%
<b>Moisture absorption</b>	ASTM D-570	0.04%
Adhesive		
Property	Test method	Typical value
<b>Softening Point</b>	ASTM E-28	135°C
<b>Lap shear</b>	EN 12068	0.09 N/mm <sup>2</sup>
Installed sleeve		
Property	Test method	Typical value
<b>Peel to PE</b>	EN 12068, 10mm/min DIN 30672, 100 mm/min	1.1 N/mm 40 N/cm
<b>Soil stress resistance</b>	EN 489 – 100 cycles*	Pass
<b>External pressure test after soil stress</b>	EN 489 23°C, 30 kPa, 24 hrs	Pass

\* 8% sand humidity

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

<b>Backing as supplied</b>	0.65 mm
<b>Backing fully free recovered</b>	1.00 mm
<b>Mastic sealant as supplied</b>	0.88 mm

### Product order information

EasySeal TPSP-PE type products are available  
 – As ready-to-size tubular sleeve

Example	TPSP-210/135-150PE160/180(C60)	
	Designation	Standard ordering options
<b>210/135</b>	Recovery ratio (mm)	See application table on next page
<b>150</b>	Sleeve width (mm)	150, 225, (450)**
<b>PE160/180</b>	Outside diameter(s) of insulated pipe(s)	See application table on next page
<b>C60</b>	Packaging quantity	C60: 60 pc per case

\*\* no inside-out packaging, only adhesive liner, made to order only