



Heat shrinkable corrosion protection sleeve specifically developed for installation on flanges or mechanical couplings that are already in place.

Product description

FCWS-F/Flangeseal (US) flange/pipe sealing and protection.

Construction: Two-layer system:

First layer: Visco-elastic sealant.

Second layer: Fiberglass reinforced, radiation cross-linked, polyethylene backing.

The FCWS-F/Flangeseal (US) - is a wrap-around heat-shrinkable sleeve, with a specially designed zipper closing system, allowing a fast and simple installation. The fiberglass-reinforced woven backing gives the FCWS-F/Flangeseal (US) a high mechanical resistance as well as a high recovery capacity. In addition to the sleeve, a cardboard sheet is supplied to keep the flange nuts & bolts clean, allowing easy re-entry and disassembly when necessary.

FCWS-F/Flangeseal (US) is installed using standard gas torches. The installation is carried out directly on the cleaned and prepared pipe surface and flange. After preheating, the corrugated cardboard sheet is wrapped around the flange to be sealed. The heat-shrinkable sleeve is positioned centrally over the flange and closed, using the zipper closure. When heated above 125°C (257°F), the sleeve shrinks tightly around the substrate. During recovery, the adhesive softens and flows to form a tight bond. The bond strength builds up during cool down and is fully retained after completion of the job.

Product features/benefits

- **Backing with integrated fiberglass reinforcement**
Tough and long lasting.
Provides a high recovery capacity.
- **65% shrinkage ratio – conforms to high transitions**
Reduces inventory & logistics costs.
Saves money.
- **High mechanical resistance backing**
Resists abrasion, impact and penetration.
- **No primer required**
No drying time and easy application.
- **Specially formulated sealant**
Ensures a strong bond & tight seal to virtually any substrate.
Maintains its elasticity and sealing characteristics over a wide temperature range.
- **Sealing adhesive automatically flows and repairs minor mechanical damages**
"Self-healing effect." Saves money.
- **Low preheat sensitivity & proven functionality**
Faster application, this saving time.
- **Zipper closure system**
Simple & fast installation.
- **No special equipment required**
Makes installation fast and easy.
Keeps installation costs low.

Product selection guide

	FCWS-F/Flangeseal (US)
Max operating temperature	30°C (86°F)
Compatible line coatings	PE, PP, FBE, Tape, Coal tar, Asphalt, Plastics
Min preheat temperature	60°C (140°F)
Recommended pipe preparation	ST3

Product thickness

	FCWS-F/Flangeseal (US)
Backing (as supplied)	0.051 in. (1.3 mm)
Backing (fully free recovered)	0.128 in. (3.25 mm)
Adhesive (as supplied)	0.047 in. (1.2 mm)

Product properties: FCWS-F/ Flangeseal(US)

Property	Test method	Typical Value
Backing		
Bursting strength	DIN 30672	3500 N
Adhesive		
Softening point	ASTM E-28	92°C (198°F)
Shear strength	EN12068 @ 10 mm (0.4")/min.	8 N/cm ²
Sleeve		
Peel strength	EN12068 @ 10 mm (0.4")/min.	9 N/cm

Ordering information

FCWS-F/Flangeseal (US) type products are available as a kit containing:

- a sleeve (pre-cut sleeve with zipper closure)
- a corrugated cardboard sheet

Example: FCWS-F-DN65-300

		Standard Ordering options
DN65	Pipe diameter in DN	DN65, DN80, DN100, DN125, DN150 (2.875", 3.500", 4.500", 5.563", 6.625")
300	Sleeve width in mm	300 mm (12")

Example: FS5563-24 (US only)

		Standard Ordering options
5563	Pipe diameter in mils	See application table
24	Sleeve width in inches	24" (600 mm)

Application Table

Max. \varnothing flange (mm)	Min. pipe $\cdot \varnothing$ (mm)	FCWS-F	Flangeseal (US only)
141 (5.56")	73 (2.87")		FS5563-24
168 (6.62")	89 (3.5")		FS6625-24
185 (7.28")	76 (3")	FCWS-F-DN65-300	
200 (7.87")	89 (3.5")	FCWS-F-DN80-300	
219 (8.625")	102 (4")		FS8625-24
230 (9.06")	114 (4.5")	FCWS-F-DN100-300	FS10750-24
250 (9.84")	140 (5.5")	FCWS-F-DN125-300	FS10750-24
285 (11.22")	168 (6.62")	FCWS-F-DN150-300	FS12750-24
355 (14")	168 (6.62")	* see FCWS or TISW-F	FS14000-24
			Bigger sizes available, Up to 48000

Berry Plastics warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the technical data sheet when used in compliance with Berry Plastics written instructions. Since many installation factors are beyond the control of Berry Plastics, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection herewith. Berry Plastics liability is stated in the standard terms and conditions of sale. Berry Plastics makes no other warranty either expressed or implied. All information contained in this technical data sheet is to be used as a guide and is subject to change without notice. This technical data sheet supersedes all previous data sheets on this product.



CORROSION PROTECTION GROUP
www.berrycpg.com



www.corrosioncoatings.com sales@corrosioncoatings.com

Distributed by:
Protection Engineering
2201 Harbor Street, Unit C
Pittsburg, CA 94565
Tel: 800.878.8837 Fax: 925.427.6202

Headquarters : Berry Plastics Tapes & Coatings Division, Franklin MA, USA

Franklin, MA, USA
Tel: +1 508 918 1714
US Toll Free: +1 800 248 0149
Fax: +1 508 918 1910
CPG@berryplastics.com

Houston, TX, USA
Tel: +1 713 676 0085
US Toll Free: 01 888 676 7202
Fax: +1 713 676 0086
CPGH@berryplastics.com

Tijuana, Mexico
Tel USA +1 858 633 9797
Fax US: +1 858 633 9740
Tel Mexico: +52 664 647 4397
Fax Mexico: +52 664 647 4370
CPGTJ@berryplastics.com

Aarschot, Belgium
Tel: +32 16 55 36 00
Fax: +32 16 55 36 74
CPGE@berryplastics.com

Baroda, India
Tel: +91 2667 264721
Fax: +91 2667 264724
CPGIN@berryplastics.com