



**Heat-shrinkable (Gas) Repair Sleeve for permanently repairing leaking caulked/screwed joints in low-pressure distribution networks.**

### Product description

#### GRSM-F caulked/screwed joint leak repairing.

**Construction:** Two-layer system:

**First layer:** Visco-elastic mastic sealant.

**Second layer:** Radiation-cross-linked, polyethylene, glass fiber reinforced.

Additional kit component: S1052 special shaped mastic profile, to form a gradual sloping support for the sleeve in the transition area of (bell & spigot) joints. This profile is compatible with the sleeve coating.

GRSM-F heat-shrinkable, wraparound repair sleeves are a reliable, easy method of permanently repairing leaking caulked/screwed joints in low-pressure (gas)

distribution networks for maximum operating pressure of 100 mbar or 10 KPa (1.45 psi). The GRSM-F sleeve is ideally suited for quick on-site repair of pitted or cracked pipe and bells. Ideal for limited space applications, it can be used in close proximity to other pipes or cables where most systems won't fit.

GRSM-F has to be used in conjunction with a mastic profile allowing the sleeve to accommodate the large diameter differences associated with bell and spigot joints.

GRSM-F, glass fiber reinforced, has a high shrink recovery ratio coping easily with sharp step-downs. It is closed by a zipper shielded against flame contact by a factory applied closure patch. The sleeve inner sealant adheres to virtually any substrate and maintains its elasticity and sealing characteristics over a wide temperature range.

The installation, simple and fast, is carried out directly on the cleaned and dried (pre-heated) surface. The mastic profile and sleeve are simply wrapped around the pipe or joint and closed. When heated with a gas flame, the GRSM-F sleeve shrinks tightly around the substrate. At the same time, the mastic profile and the sealant that coats the inside of the sleeve soften and flow into all pits and surface irregularities, forming an excellent seal.

### Product features/benefits

- **No primer required**  
No drying time and easy application.
- **Low preheat sensitivity & proven functionality**  
Allows easy application combined with high functional performance.
- **Highly resistant to temperature cycling, vibration, deflection, axial pull movement**  
Tough, dependable and user-friendly.
- **Limited space for application required**  
Reduces digging costs & saves time.
- **Specially formulated sealant**  
Ensures a strong bond & impervious 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 extra intervention steps.
- **Unique closure systems**  
Allow simple & fast installation.
- **High shrink ratio conforms to transitions**  
Allows each size to fit a variety of sizes, keeping logistics costs low. Saves money by reducing inventory. Easy selection.
- **No elaborate equipment required**  
Makes installation fast and easy. Keeps installation costs low.

### Product selection guide

	GRSM-F
<b>Max. operating temperature</b>	30°C (86°F)
<b>Compatible line coatings</b>	PE, FBE, Tape, Coal tar, Asphalt, Plastics
<b>Min. preheat temperature</b>	60°C (140°F)
<b>Recommended pipe preparation</b>	ST3 or SA 2 1/2
<b>Soil stress restrictions</b>	None
<b>Performance</b>	DIN30658

### Product thickness

	GRSM-F
<b>Backing (as supplied)</b>	0.051 in. (1.3 mm)
<b>Backing (fully free recovered)</b>	0.128 in. (3.25 mm)
<b>Adhesive (as supplied)</b>	0.047 in. (1.2 mm)

## Product properties: GRSM-F

GRSM-F		
Property	Test method	Typical value
<b>Backing</b>		
Bursting strength	DIN 30672	3500 N
<b>Adhesive</b>		
Softening point	ASTM E-28	92°C (198°F)
Shear strength	EN 12068 @ 10 mm (0.4")/min.	8 N/cm <sup>2</sup>
Peel strength	EN 12068 @ 10 mm (0.4")/min.	9 N/cm
<b>System</b>		

Total systems GRSM-F are tested according to the requirements of DIN30658 and approved by DVGW.

## Ordering information

### GRSM-F type products are available as a kit containing:

- a sleeve with integrated zipper closure system
- one or more triangular shaped mastic profiles

### Example: GRSM-F-DN200-600

		Standard ordering options
DN200	Pipe $\varnothing$ in DN / inches	DN80, DN100, DN150, DN200, DN250, DN300, DN350, DN400, DN500, DN600
600	Sleeve width in mm	600

For proper product selection, see latest application table AT-GRSM-F.

For proper product installation, see latest installation instruction.

DS-GRSM-F-REV-5-0309

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.



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[www.berrycpg.com](http://www.berrycpg.com)

Local Distributor / Representative:

For contact details of local Distributors / Representatives  
Please visit [www.berrycpg.com](http://www.berrycpg.com).

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