

3M

WeatherbanTM

Ribbon Sealants

PF 5422 • PF 5423

Technical Data

July, 2002

Product Description

3MTM WeatherbanTM Ribbon Sealants PF 5422 and PF 5423 are a supported synthetic rubber sealant in ribbon form. They offer a watertight, gasket-like seal in applications such as bedding glass, around window and door frames, etc. They can also act as a metal seam sealer in overlap seams, building panels, rain gutters, and can be used in conjunction with mechanical fasteners. They offer outstanding resistance to weathering, and develops good adhesion to glass, metal, and most other surfaces.

Features

- Protective liner and sealant are different widths for easy release.
- Maintain tack at temperatures as low as 40°F (5°C) permitting application in unheated area.
- Stays in position on vertical or overhead surfaces.
- Easy hand layup – no special equipment needed.
- Repositionable during application. Builds aggressive adhesion with time.
- Solvent-free.
- No shrinkage.
- Vibration and sound dampening qualities.
- Helps prevent bimetallic (galvanic cell action) corrosion, when placed between metal surfaces.
- May be positioned side by side to achieve varying widths.

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Typical Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

	Weatherban PF 5422	Weatherban PF 5423
Base:	Oil Soluble Elastomer	Oil Soluble Elastomer
Specific Gravity (approx.):	1.52	1.52
Form:	Tacky Pre-formed Ribbon Sealant with Cotton Thread Scrim	Tacky Pre-formed Ribbon Sealant
Solids Content (approx.):	100% by weight	100% by weight
Flash Point:	None	None
Thickness (inches):	1/8	1/16
Color:	Black	Black
Hardness (approx.):	(1/16" Thick Sealant) Shore A = 30 @ 75°F (24°C)	(1/16" Thick Sealant) Shore A = 30 @ 75°F (24°C)
Width (inches):	3/8, 1/2, 3/4, 1, 1 1/2, 2	3/4, 3/8, 7/8, 1

Handling/Application Information

All surfaces to which 3MTM WeatherbanTM Ribbon Sealant PF 5422 and PF 5423 are applied should be free from dust, dirt, grease or other contamination. Temperature of the sealant and surfaces to be bonded should be 40°F (4°C) or above.

Weatherban PF 5422 and PF 5423 are supplied in roll form on a liner. Lay or press the sealant in place, remove and discard the liner. Weatherban PF 5422 and PF 5423 have sufficient tack to adhere to most surfaces at temperatures as low as 40°F (4°C).

Cleanup can be accomplished with a solvent such as 3MTM Scotch-GripTM Solvent No. 2 or 3MTM Citrus Base Industrial Cleaner.*

***Note:** When using solvents, extinguish all ignition sources and follow the manufacturer's precautions and directions for use.

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Typical Performance Characteristics

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Water Resistance – After a 1/16" ribbon is sandwiched between two galvanized panels and immersed in water for 7 days at 75°F (24°C), the sealer remains unaffected and the panels show no sign of corrosion.

Tensile and Elongation at 5"/Minute – Was measured at tensile = 33 psi and elongation = 200%.

Flow Resistance – 1" x 1" x 1/8" specimen under 10 pounds compression for 24 hours.

	@ 75°F (24°C) (inches)	@ 120°F (49°C) (inches)
Decrease in thickness	0.015	0.025
Increase in length, width	0.031	0.062

Low Temperature Flexibility – 3M™ Weatherban™ Ribbon Sealant PF 5422 and PF 5423 placed on a 0.040" bare aluminum panel and bent over a 1/2" diameter mandrel at -40°F (-40°C) exhibited excellent flexibility with no loss of adhesion.

Note: Weatherban PF 5422 and PF 5423 are not resistant to oil, gasoline, or solvents and should not be used in applications where exposure is possible.

Storage and Shelf Life

Storage: Store product at 60-80°F (15-27°C) for maximum storage life. Higher temperatures reduce normal storage life. Rotate stock on a "first in-first out" basis.

Shelf Life: When stored at the recommended conditions in the original unopened package, this product has a shelf life of 24 months.

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Precautionary Information

Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, call 1-800-364-3577 or (651) 737-6501.

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550 or visit www.3M.com/adhesives. Address correspondence to: 3M Engineered Adhesives Division, 3M Center, Building 220-7E-01, St. Paul, MN 55144-1000. Our fax number is 651-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

Important Notice

3M MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

Limitation of Remedies and Liability

If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including, but not limited to, contract, negligence, warranty, or strict liability.

ISO 9002

This Engineered Adhesives Division product was manufactured under a 3M quality system registered to ISO 9002 standards.



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