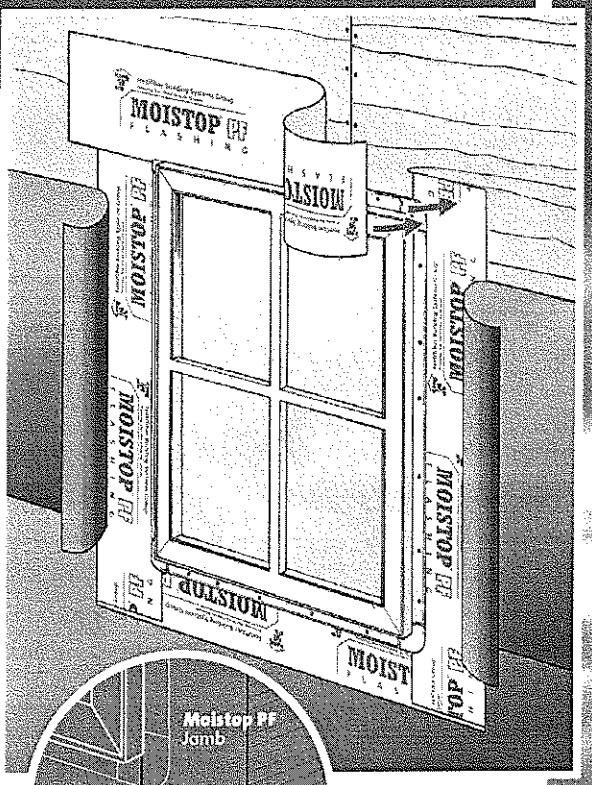
MOISTOP PF®

FLASHING

The primary cause of water intrusion in a commercial or residential building is the lack of properly integrated flashing around windows, doors and other fenestrations. When the flashing fails, the cost of repairs and potential exposure to litigation can be staggering – particularly when water infiltration leads to problems with mold and mildew.

"Moistop PF Flashing is engineeered to offer a unique balance of jobsite durability and cost-effectiveness."

Moistop PF is a critical element in the complete Moisture Control System for Walls pioneered by the Fortifiber Building Systems Group®. The product is engineered to answer the need for a mechanically-attached flashing material that offers a unique balance between extraordinary durability and cost-effectiveness. Moistop PF resists extreme jobsite abuse – such as heavy wind and rain – while effectively containing costs and protecting structures.



Moistop PF protects against water intrusion in windows, doors and other vertical through-wall penetrations.

Maximum Durability and Flexibility

Moistop PF is the solution of choice when building requirements call for a mechanically-attached flashing product that is unaffected by substrates or job site conditions. Manufactured from a multi-layer composite employing heavy-duty polypropylene woven fabric, and coated on both sides with ultraviolet-resistant polypropylene, the product resists cracking and curling – both before and after installation.

Moistop PF's unique construction makes it ideal for installation over OSB or plywood, making it easy to integrate with a weather-resistive barrier. It can be used on all types of windows, including wood, vinyl and aluminum casing – as well as doors. The product is available in pre-cut widths of 6, 9, 12 and 18 inches, and installs easily with a utility knife and hammer.

- Superior Water Protection
- Extraordinary Durability & Tear Resistance
- Resists Jobsite Abuse
- Mold Resistant
- Part of a Complete Moisture Control System

Part of a Complete Moisture Control System

Designed through the use of building science and perfected in the field, Moistop PF – when combined with one of Fortifiber's high performance weather-resistive barriers and Moistop® Sealant – offers the only complete moisture control system available from a single source. Comprised of 100% compatible materials, the system takes the guesswork out of selecting flashing, sealant and weather-resistive barriers that work together and deliver performance you can depend on.

Decades of Proven Performance

Moistop PF is a product manufactured by the Fortifiber Building Systems Group. With more than a seventy-five year history of proven performance, technical expertise and practical know-how, the company has become a trusted partner to builders, architects and code officials.

MOISTOP PF FLASHING

Product Description: Moistop PF Flashing is a superior flexible flashing designed to prevent incidental moisture intrusion around windows and doors.

Composition: Moistop PF is a strong multilayer composite of heavy-duty woven polypropylene fabric, coated on both sides with ultraviolet-resistant polypropylene.

Size & Weight: Moistop PF is supplied in convenient 6", 9", 12" and 18" widths by 300' long rolls. Weight is approximately 3.75 lbs (6"), 5.6 lbs (9"), 7.5 lbs (12") and 11.25 lbs (18") per roll. Thickness is 6 mils.

Applicable Standards: American Society for Testing & Materials (ASTM)

- *ASTM D-779 - Standard Test Method for Water Resistance of Paper, Paperboard and Other Sheet Materials by the Dry Indicator Method*
- *ASTM D-882 - Standard Test Method for Tensile Properties of Thin Plastic Sheeting*
- *ASTM D-4533 - Standard Test Method for Trapezoid Tearing Strength of Geotextiles*
- *ASTM E-96 - Water Vapor Transmission of Materials*
- *ASTM F-1249 - Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor*
- *ASTM G-21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi*

Physical Properties: Moistop PF is continually tested in accordance with ASTM procedures. The values shown in Table 1 are averages obtained in these tests. Complies with ASTM E-2112.

Limitations: Moistop PF should not be installed horizontally or at a slope of less than 60°. The product should be covered as soon as possible. Inspect product to insure it is free of any protrusions or damage which may compromise its moisture-resistive properties.

Installation: For optimum performance, Moistop PF should be installed in conjunction with Moistop Sealant as a component of the Moistop Flashing System. In a typical window installation, Moistop PF is first applied at the sill and jambs of window openings. Moistop Sealant is applied to window flanges and windows are installed. Sealant is then applied continuously along the face of window head mounting flange, and Moistop PF is embedded in the sealant along the head of the window. For complete installation instructions, contact our Technical Assistance at 1-800-773-4777 or download them from our website at www.fortifiber.com.

Availability: The Fortifiber Building Systems Group's products are distributed nationwide. For product information and pricing, please call a Fortifiber distributor near you. If you need assistance locating a participating distributor, please call our customer service department at 1-800-773-4777.

Fortifiber Warranty: Fortifiber Corporation warrants that its products are in compliance with their published specifications and are free from defects in materials and workmanship for a period of two years from the date of purchase. This warranty does not apply to loss due to abuse. Material found to be defective will be replaced at no charge by Fortifiber, but in no event shall Fortifiber be liable for any other costs or damages, including any labor costs.

THIS EXPRESS WARRANTY IS GIVEN IN LIEU OF AND EXCLUDES ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Fortifiber's sole obligations under this warranty are as set forth herein. In no event shall Fortifiber be liable for any lost revenue or profits, direct, indirect, special, incidental or consequential damages of any kind.

This product may be eligible for Fortifiber's FortiShield 10 year warranty when used in conjunction with other Fortifiber products. Please see our website at www.fortifiber.com/warranty.htm for details.

SPECIFICATION SUMMARY: Provides window and door concealed perimeter flashing system, including integration with weather-resistive barriers, to provide secondary weather protection behind exterior cladding.

FLEXIBLE WINDOW & DOOR FLASHING: Fortifiber/ Moistop PF Flashing multi-layer composite employing heavy-duty woven polypropylene fabric coated on both sides with ultraviolet-resistant polypropylene.

Table 1- Physical Properties

Characteristic	Test Method	Results	Industry Standard
Water Vapor Permeance	ASTM E-96-A ASTM F-1249	<0.02 Perms	<0.57 Perms
Water Resistance	ASTM D-779	>130 hours	24 hours
Tensile Strength	ASTM D-882	MD - 107 lb.^{f}/inch CD - 76 lb.^{f}/inch	MD - 20 lb.^{f}/inch CD - 20 lb.^{f}/inch
Trapezoidal Tear	ASTM D-4533	MD - 51 lb.^{f}/inch CD - 41 lb.^{f}/inch	n/a
Mold Growth	ASTM G-21	0 Fungal Growth	n/a

Fortifiber Building Systems Group®
Protecting Your World from the Elements®

MEMBER AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION

Call 1-800-773-4777 or 1-775-333-6400 for sales and technical assistance. On the Internet visit www.fortifiber.com.

TREMCO®

Dymonic® FC

Fast-Curing, Low-Modulus, Silane End-Capped, Polyurethane Hybrid Sealant

Product Description

Dymonic® FC is a low-modulus, one-component, moisture-cure, polyurethane hybrid sealant. Dymonic FC is formulated with proprietary silane end-capped polymer technology. Dymonic FC provides the best performance characteristics of polyurethane and silicone sealants.

Basic Uses

Dymonic FC is a durable, flexible, sealant that offers excellent performance in moving joints and exhibits tenacious adhesion once fully cured. Typical applications for Dymonic FC include expansion and control joints, precast concrete panel joints, perimeter caulking (windows, door, panels), EIFS, aluminum, masonry and vinyl siding.

Features and Benefits

Dymonic FC is fast curing with a skin time of 60 minutes and a tack-free time of 3-4 hours to significantly reduce dirt pickup. It will not green crack due to early movement and has an exceptional movement capability of ± 35%. Dymonic FC is also low-VOC, paintable and will not crack or craze under UV exposure.

Colors

Almond, Beige, Black, Anodized Aluminum, Aluminum Stone, Buff, Dark Bronze, Gray, Limestone, Off White, Redwood Tan, Stone, White, Natural Clay, Bronze and Ivory.

Packaging

10.1 oz. (300mL) cartridges; 20 oz. (600mL) sausages; 2 gal. (7.6L), 3 gal. (11.4L) and 5 gal. (19L) pails.

Coverage Rates

308 linear feet of joint per gallon for a 1/4 in. x 1/4 in. (6mm x 6mm) joint. For specific coverage rates that include joint size and usage efficiencies, visit our website usage calculator at www.tremcosealants.com.

Applicable Standards

Dymonic FC meets or exceeds the requirements of the following specifications:

- ASTM C 920 Type S, Grade NS, Class 35, Use NT, M, A and O
- ASTM C 1248
- U.S. Federal Specification TT-S-00230C Class A, Type II
- CAN/CGSB 19.13-M87

Fire-Rated Systems

FF-D-1063, FW-D-1059, HW-D-1054, WW-D-1054.

Joint Design

Dymonic FC may be used in any joint designed in accordance with accepted architectural/engineering practices. Joint width should be 4 times anticipated movement, but not less than 1/4 in. (6mm).

Joint Backing

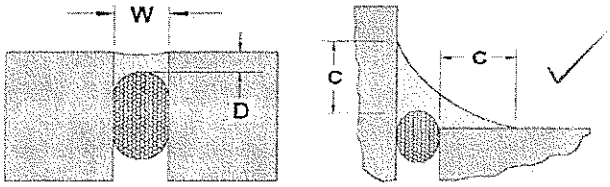
Closed cell or reticulated polyethylene backer rod is recommended as joint backing to control sealant depth and to ensure intimate contact of sealant with joint walls when tooling. Where depth of joint will prevent the use of backer rod, an adhesive backed polyethylene tape (bond breaker tape) should be used to prevent three-sided adhesion. All backing should be dry at time of sealant application.

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Typical Value
Rheological Properties	ASTM C 639	Non-sag (NS), 0" of sag in channel
Extrusion Rate	ASTM C 1183	93.1 ml/min.
Hardness Properties	ASTM C 661	25
Weight Loss	ASTM C 1246	Pass
Skin Time		1 hour
Tack Free Time	ASTM C 679	3-4 hours
Stain & Color Change	ASTM C 510	No visible color change/No stain
Adhesion-in-Peel	ASTM C 794	Aluminum 20-25 pli (89-112N)
		Concrete 18-22 pli (80-98N)
		No Adhesion Loss
Effects of Accelerated Aging	ASTM C 793	Pass
Movement Capability		± 35%

Sealant Dimensions

W = Sealant width, D = Sealant depth, C = Contact area.



EXPANSION JOINTS - The minimum width and depth of any sealant application should be 1/4 in. by 1/4 in. (6mm by 6mm).

The depth (D) of sealant may be equal to the width (W) of joints that are less than 1/2 in. (13mm) wide. For joints ranging from 1/2 in. to 1 in. (13mm to 25mm) wide, the sealant depth should be approximately one-half of the joint width.

The maximum depth (D) of any sealant application should be 1/2 in. (13mm). For joints that are wider than 1 in. (25mm) contact Tremco Technical Services or your local Sales Representative.

WINDOW PERIMETERS – For fillet beads, or angle beads around windows and doors, the sealant should exhibit a minimum surface contact area (C) of 1/4 in. (6mm) onto each substrate. Proper joint backing or bond breaking should be provided to allow for anticipated movement.

Surface Preparations

Surfaces must be sound, clean, and dry. All release agents, existing waterproofing, dust, loose mortar, laitance, paints, or other finishes must be removed. This can be accomplished with a thorough wire brushing, grinding, sandblasting, or solvent washing, depending on the contamination.

Tremco recommends that surface temperatures be 40°F (4°C) or above at the time the sealant is applied. If sealant must be applied in temperatures below 40°F (4°C), please refer to the Tremco Guide for Applying Sealants in Cold Weather that can be found on our website at www.tremcosealants.com.

Priming

Where deemed necessary, use TREMprime Silicone Porous Primer for porous surfaces and TREMprime Silicone Metal Primer for metals or plastics. Dymonic FC typically adheres to common construction substrates without primers; however, due to the variability of substrate finishes such as Kynar and anodized aluminum, Tremco always recommends that a mock-up or field adhesion test be performed on the actual materials being used on the job to verify the need for a primer. A description of the field adhesion test can be found in appendix X1 of ASTM C 1193, Standard Guide for Use of Joint Sealants.

Application

Dymonic FC is easy to apply with conventional caulking equipment. Ensure that the backer rod is friction fitted properly and any primers have been applied. Fill the joint completely with a proper width-to-depth ratio and tool to ensure intimate contact of sealant with joint walls. Dry tooling is always preferred, although xylene can be used in limited amounts to slick the spatula if needed following the initial dry tooling.

For a cleaner finish, mask the sides of the joint with tape prior to filling.

Cure Time

Dymonic FC generally cures at a rate of 3/32 in. per day at 75°F (24°C) and 50% relative humidity. Dymonic FC will skin in 1 hour and be tack-free in 3-4 hours. The cure time will increase as temperatures and/or humidity decrease. A good rule of thumb is one additional day for every 10°F decrease in temperature.

Clean up

Excess sealant and smears adjacent to the joint interface can be carefully removed with xylene or mineral spirits before the sealant cures. Any utensils used for tooling can also be cleaned with xylene or mineral spirits.

Limitations

- Do not apply over damp or contaminated surfaces.
- Use with adequate ventilation.
- Do not use under polyurethane deck coatings unless the sealant is fully cured.
- Always utilize the accompanying MSDS for information on Personal Protective Equipment (PPE) and health Hazards.

Warranty

Tremco warrants its Products to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to Tremco Products. Tremco's sole obligation shall be, at its option, to replace or refund the purchase of the quantity of Tremco Products proven to be defective and Tremco shall not be liable for any loss or damage.

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

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