

# WEATHERSmart®

H O U S E W R A P

## Part of a Complete Moisture Control System

WeatherSmart represents the next generation in housewrap technology, offering architects, specifiers and builders a smart housewrap solution – one that delivers the ideal balance between breathability and water protection, so it can be used in any climate and behind most exterior claddings.

“*The WeatherSmart design provides architects and builders with the ideal level of vapor permeability...*”

The product is part of a complete Moisture Control System for walls engineered by the Fortifiber Building Systems Group®, which has been chosen by builders and architects to protect over *five million* homes and commercial buildings from the problems caused by water intrusion. When integrated into the building

envelope, our products help manage and eliminate moisture-related problems – including water-related structural failures, mold and mildew.

The WeatherSmart design has its roots in advanced building science research. The product is a nonwoven, non-perforated wrap, employing an advanced breathable polymer technology. Its design provides a highly reliable air infiltration barrier that is incredibly durable and UV stable. So it's right at home in the most rugged jobsite conditions.

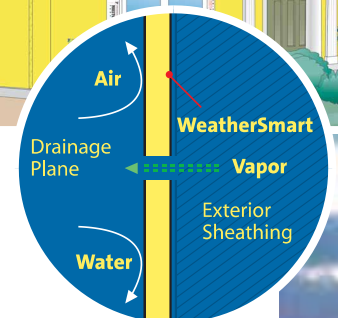
Unlike other housewrap products, WeatherSmart is highly resistant to surfactants that can severely reduce water resistance. Surfactants are chemicals that make it easier for water to pass through small holes. Exposure to these chemicals on the jobsite and by homeowners in the form of power washing solutions and detergents is quite common, so you can count on WeatherSmart to continue providing protection long after the exterior cladding is installed.

## Intelligent Water Vapor Management

Most housewraps require you to choose between an alternative that offers a high perm rating or a low one – each suited for different climates and building envelope designs. With a perm rating of 8, the WeatherSmart design provides architects and builders with the ideal level of vapor permeability – so it's the smart choice behind fiber cement siding, brick, vinyl and wood siding.

## Decades of Proven Performance

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



*WeatherSmart protects against water intrusion and air infiltration from the outside, while allowing moisture vapor to escape from the inside.*

- EXCEEDS WATER RESISTANCE STANDARDS
- MEETS BUILDING SCIENCE RECOMMENDATIONS FOR BREATHABILITY
- OUTSTANDING UV RESISTANCE
- WITHSTANDS THE RIGORS OF THE JOBSITE
- EXCEEDS RIGOROUS CANADIAN AIR INFILTRATION STANDARDS
- SURFACTANT RESISTANT



**Product Description:** WeatherSmart is a scientifically advanced housewrap designed for use within a variety of exterior wall assemblies. It provides excellent protection from wall damage due to water intrusion and condensation.

**Composition:** WeatherSmart is a nonwoven, non-perforated wrap, employing an advanced breathable polymer technology.

**Size & Weight:** WeatherSmart is available in 3'x100', 3'x165', 4.5'x200', 9'x100', 9'x150', and 10'x100' rolls. Product weight is approximately 1.9 lbs/100 sq. ft. Thickness is 13 mils.

**Applicable Standards:** Complies with the International Code Council Evaluation Services Acceptance Criteria for Water Resistive Barriers (AC 38).

Complies as an alternative to the water-resistive barrier specified in Section 1404.2 of the International Building Code®.

Complies as an alternative to the weather-resistant sheathing papers specified in Section R703.2 of the International Residential Building Code®.

ICC-ES Evaluation Report No. 1027.

AATCC-127 (American Association of Textile Chemists and Colorists) Method 127 Water Resistance: Hydrostatic Pressure Test

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-5034 - Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)*
- *ASTM E-84 - Standard Test Method for Surface Burning Characteristics of Building Materials*
- *ASTM E-96 - Standard Test Method for Water Vapor Transmission of Materials*
- *ASTM E-2178 - Standard Test Method for Air Permeance of Building Materials*

**Physical Properties:** WeatherSmart is continually tested in accordance with ASTM procedures. The values shown in Table 1 are averages obtained in these tests.

**Limitations:** Product should be covered within six months. To ensure maximum exposure time, store unused product in an area

not exposed to sunlight. Inspect product to insure it is free of any protrusions or damage which may detract from the weather-resistive barrier integrity. Holes, tears or punctures should be sealed with Moistop® Sealant or Fortifiber Sheathing Tape. This product is not recommended for horizontal, roofing or below grade applications. Fortifiber strongly recommends the use of a Two-Ply Jumbo Tex product or two layers of a single ply Jumbo Tex product when used with a three-coat stucco system. Ensure that a layer of Super Jumbo Tex 60 minute is used to separate WeatherSmart and Portland cement stucco or mortar used in masonry veneer walls.

**Installation:** WeatherSmart should be installed in accordance with the local applicable building code. Weather-resistive barriers should be applied horizontally, with the upper layers overlapping the lower layer by a minimum of 6", and all vertical joints should be lapped a minimum of 6". Use Fortifiber Sheathing Tape to seal all seams.

**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.

**FortiShield Warranty:** WeatherSmart is expressly warranted for a period of ten (10) years from purchase that it will perform to Fortifiber's published specifications when installed according to Fortifiber's installation procedures and accepted industry standards in a standard weather-resistive barrier application. Installation must use one or more of the following Fortifiber brand flashing products (Moistop E-Z Seal®, FortiFlash®, FortiFlash® Butyl, Moistop neXT®, or Moistop PF®) with Moistop® Sealant and Fortifiber Sheathing Tape in a properly designed and constructed wall system. In the event of a warranty claim, Fortifiber will pay the cost of materials and labor to correct problems found to be caused solely by the failure of Fortifiber's product as expressly warranted above.

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. If the installation or use of this product does not qualify for the FortiShield warranty, Fortifiber's standard warranty will apply. See [fortifiber.com/warranty.htm](http://fortifiber.com/warranty.htm) for details.

**Table 1- Physical Properties**

CHARACTERISTIC	TEST METHOD	RESULTS	INDUSTRY STANDARD
Moisture Vapor Transmission	ASTM E-96 Procedure A (Dry Cup)	56 g/sm/day (8 perms)	35 g/sm/day (minimum)
Air Permeance at 75 Pascals	ASTM E-2178	0.0025 L/s/sqM	<0.02 L/s/sqM
Dry Breaking Force	ASTM D-5034 (Grab Test)	MD - 55 lb <sub>f</sub> CD - 40 lb <sub>f</sub>	MD - 40 lb <sub>f</sub> CD - 35 lb <sub>f</sub>
Water Resistance "Boat Test" Hydrostatic Head Water Ponding	ASTM D779 AATCC 127 CCMC 07102	65 min Pass (60 min rating) Pass (>24 hours)	10 min (minimum) 55 cm for 5 hours Pass (>2 hours)
Flame Spread Smoke Developed	ASTM E84 ASTM E84	Class A Pass Pass	Class A 0-25 0-450

**SPECIFICATION SUMMARY:** Provides secondary weather protection behind exterior cladding to prevent moisture penetration and condensation in exterior wall assemblies.

**WEATHER-RESISTIVE BARRIER:** WeatherSmart is a nonwoven, non-perforated wrap, employing an advanced breathable polymer technology.

**REFERENCE SPECIFICATION:** International Code Council Evaluation Services Acceptance Criteria for Water Resistive Barriers (AC 38)



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

Call 1-800-773-4777 or 1-775-333-6400 for sales and technical assistance. On the Internet visit [www.fortifiber.com](http://www.fortifiber.com).

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