

# WEATHERSmart®

H O U S E W R A P

## Part of a Complete Moisture Control System

WeatherSmart offers 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...*”

eliminate moisture-related problems – including water-related structural failures, mold and mildew.

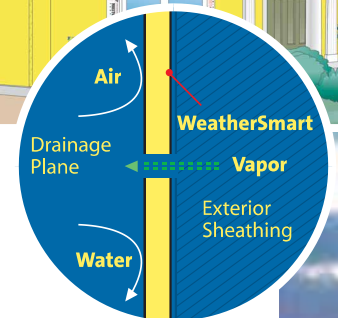
The WeatherSmart design has its roots in advanced building science research. The product is a nonwoven, non-perforated wrap, employing an advanced breathable polymer technology. Its design provides a highly reliable air infiltration barrier that is incredibly durable and UV stable. So it's right at home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

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 *eight million* homes and commercial buildings from the problems caused by water intrusion. When integrated into the building envelope, these products help manage and



*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 CODE REQUIREMENTS FOR AIR BARRIER MATERIAL
- SURFACTANT RESISTANT



## Decades of Proven Performance

WeatherSmart Housewrap 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.



**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', 10'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 D779 - Standard Test Method for Water Resistance of Paper, Paperboard, and Other Sheet Materials by the Dry Indicator Method*
- *ASTM D5034 - Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)*
- *ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials*
- *ASTM E96 - Standard Test Method for Water Vapor Transmission of Materials*
- *ASTM E2178 - 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 and Liquid Flashing or Fortifiber® Sheathing Tape. This product is not recommended for horizontal, roofing or below grade applications. Ensure that a layer of Super Jumbo Tex® 60 Minute is used to separate WeatherSmart and 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". It is recommended to tape all vertical seams with Fortifiber Sheathing Tape; all seams must be taped to achieve an air barrier install; consult your design professional where necessary.

**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:** This product may be eligible for Fortifiber's FortiShield® 15 year warranty when used in conjunction with other Fortifiber products. Please see our website at [www.fortifiber.com/warranty.htm](http://www.fortifiber.com/warranty.htm) for details.

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.

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**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).

*Table 1- Physical Properties*

CHARACTERISTIC	TEST METHOD	RESULTS	INDUSTRY STANDARD
Moisture Vapor Transmission	ASTM E96 Procedure A (Desiccant Method)	56 g/sm/day (8 perms)	35 g/sm/day (minimum)
Air Permeance at 75 Pascals	ASTM E2178	0.0025 L/s/sqM	<0.02 L/s/sqM
Dry Breaking Force	ASTM D5034 (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	Pass 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



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Protecting Your World from the Elements®

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