

# DuPont™ Tyvek® StuccoWrap®

Grooved Housewrap Engineered for Stucco Facades and EIFS Systems



## FEATURES/BENEFITS

### Description

DuPont™ Tyvek® StuccoWrap® is a water-resistive and air barrier (WRB) with an engineered, grooved surface designed to be installed as a drainage plane behind stucco facades and EIFS systems. With a specially engineered surface texture designed for traditional and synthetic stucco systems in both commercial and residential construction, Tyvek® StuccoWrap® helps reduce cracking, improve stucco curing and channel moisture out of the wall.

Tyvek® StuccoWrap® can be used as the primary water-resistive barrier (WRB) for traditional stucco and direct-applied stone masonry applications (including brick) requiring two-layer water-resistive barrier (WRB) systems or an intervening layer over the primary water-resistive barrier. It is also acceptable for use behind traditional lapped cedar and cement siding applications up to four stories. Tyvek® StuccoWrap® boasts a long track record of proven performance and meets all major building codes by ICC-ES evaluation reports.

### Air and Water Barrier Performance

Tyvek® StuccoWrap® does not absorb water, helps maintain the moisture level needed for better curing and doesn't expand and contract, resulting in a stronger stucco. Instead, Tyvek® StuccoWrap® provides superior water drainage, combats

moisture accumulation and helps prevent air infiltration and exfiltration – helping to protect the installed R-value of insulation for more comfortable, energy efficient homes and buildings.

### Ease of Installation

Tyvek® StuccoWrap® is lightweight, easy to handle and quick to install. It is pliable – wrapping around corners with ease – and easily interfaces at joints and over architectural elements. Some other features and benefits include:

- 30% more flexural strength than stucco cured on 60-minute building paper
- Good tear strength – 3X stronger than paper
- High water resistance – retains durability when wet and channels water to the outside
- Non-absorptive – does not absorb water out of curing stucco
- High vapor permeability promotes drying
- Outstanding air infiltration protection
- Sturdy, but easy to repair accidental damage with tape
- Not a food source for mold and mildew
- Withstands up to four (4) months (120 days) of UV exposure
- ASTM E2556, Type II Compliant – Standard Specification for Vapor Permeable Flexible Sheet Water-Resistive Barriers Intended for Mechanical Attachment

### Available Sizes

Tyvek® StuccoWrap® is available in 5' x 200' rolls.

### High Performance Durability

DuPont™ Tyvek® StuccoWrap® ensures that the unique water management needs of stucco facades are covered without compromising building envelope performance. Tyvek® StuccoWrap® is highly inert, meaning stucco will not chemically react with or degrade it. Research has shown that when stucco is directly applied, Tyvek® StuccoWrap® is better than Grade D paper at managing hydration and remaining stable during curing<sup>1</sup>. These two features result in a significant reduction of cracking in the scratch coat, leading to better stucco integrity and a reduced chance for water to penetrate the facade.

### Sustainable Solutions

The use of Tyvek® StuccoWrap® as part of an assembly to reduce air infiltration may assist in achieving points for USGBC LEED® Certified Projects or an ENERGY STAR® label for new homes or home improvements.

### Complete System

Tyvek® StuccoWrap® along with DuPont Self-Adhered Flashing Products and other DuPont Building Envelope Solutions Products provide integrated air and water management solutions that help meet or exceed building and energy code requirements without sacrificing building durability.

<sup>1</sup> Development of a Textured Spun-bonded Polyolefin Water Barrier for Stucco and EIFS™ presented at an Innovative Products Symposium at the ASHRAE Winter Meeting, Atlanta, GA, January 2001.

## PROPERTIES

Tyvek® StuccoWrap® exhibits physical properties as indicated in Table 1 when tested as represented. Review all instructions and (Material) Safety Data Sheet ((M)SDS) before use. Please contact your local DuPont™ Tyvek® Specialist when additional guidance is required before writing specifications around this product. Product properties are as follows:

**TABLE 1: Physical Properties for Tyvek® StuccoWrap®**

Test Method	Property	Typical Value	Units
ASTM E2178	Air Penetration Resistance	0.004	cfm/ft²@1.57 psf
Gurley Hill (TAPPI T-460)	Air Penetration Resistance	>300	sec/100cc
ASTM E1677	Air Penetration Resistance	Type 1	-
ICC-ES AC 24 Section 6.11	Drainage Efficiency	Pass	-
ASTM E2273		> 98	%
ICC-ES AC 235 Section 4.5		Pass	-
ASTM E96-00 Method A	Water Vapor Transmission	250 36	g/m²-24 hrs perms
ASTM E96-00 Method B	Water Vapor Transmission	350 50	g/m²-24 hrs perms
AATCC 127	Water Penetration Resistance	210	cm
TAPPI T-410	Basis Weight	21	
ASTM D882	Breaking Strength	30/30	
ASTM D1117	Tear Resistance (Trapezoid)	7/9	
ASTM E84	Surface Burning Characteristics	5 Class A	Flame Spread Index
ASTM E84	Surface Burning Characteristics	25 Class A	Smoke Developed Index
-	Ultra Violet Light Exposure (UV)	120 (4)	days (months)

Note: These values represent roll averages. Individual roll results may differ due to normal manufacturing variations.

**WARNING:** DuPont™ Tyvek® is combustible and should be protected from an open flame and other high heat sources. If the temperature of DuPont™ Tyvek® reaches 750°F (400°C), it will burn and the fire may spread and fall away from the point of ignition.



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