INTELLI SA WRAP

Self Adhering Vapor Permeable Air Barrier by IMETCO/UPI

Material

IntelliWrap™ SA is a 3-layer self-adhered water-resistive barrier (WRB) and air barrier from IMETCO®. It is water-tight and vapor permeable, protecting the building enclosure from wind-driven rain while allowing moisture within the building enclosure to escape through the membrane via diffusion. Its permeability and air-tightness make it an ideal membrane for energy-efficient construction.

Properties

IntelliWrap SA is very light-weight and tear-resistant. Its two outer layers are made of a high strength spun-bonded polypropylene (PP) fabric, thermally bonded to a highly vapor permeable, watertight polymeric middle layer. Its surface is fully coated with a high tack adhesive for bonding to common substrates, and has a split release liner for easy application.

Application

IntelliWrap SA is installed outboard of the sheathing prior to the application of the final cladding system. It may be adhered to concrete, masonry, OSB, plywood, or exterior grade drywall. Where required, primers are available.

IntelliWrap SA has a special lock-tight adhesive edge running along the front side of one long edge. The release liner, when removed, exposes a high tack adhesive that permanently bonds with the next overlapping course of membrane, creating a secure, air- and water-tight seal.

Technical Specifications

Adhesive coating	Full surface coating of vapor-permeable, pressure-sensitive adhesive
Application temperature	Minimum 40 °F (5 °C)
Service temperature	-40 °F to +176 °F (-40 °C to +80 °C) w/ primer -13 °F to +176 °F (-25 °C to +80 °C) w/o primer
Roll weight	approx. 30 lb (14 kg)
Roll length	1380 inches
Roll Width	59 inches
Material Thickness	25 mils
SF per roll	565.42 sf
Maximum UV exposure	Do not expose to UV (sunlight) for longer than 50 days

Performance Specifications

Water vapor transmission	214 g/m^2/24 h 343 g/m^2/24 h	ASTM E96-05, Proc. A ASTM E96-05, Proc. B
Vapor permeance	31 perms [grains/h/ft^2/in Hg] 50 perms [grains/h/ft^2/in Hg]	ASTM E96-05, Proc. A ASTM E96-05, Proc. B
Breaking strength	MD 71 lb; CD 65.4 lb	ASTM D5034-95
Elongation at break	MD 27.8 %; CD 60.1 %	ASTM D5034-95
90° Peel adhesion	Pass	AAMA 711-5.3 (ASTM D3330)
Accelerated aging (U.V.)	Pass	AAMA 711-5.4
Elevated temperature	Pass (Level 3)	AAMA 711-5.5 (ASTM D3330)
Thermal cycling	Pass	AAMA 711-5.6
Adhesion after water immersion	Pass	AAMA 711-5.8
Bent test	Pass	AC-38 3.3.4
Water resistance hydrostatic pressure	Pass (55 cm > 5 hours)	AATCC 127-1985
Linear dimensional change at elevated temperature 185 °F (85 °C)	MD -1.4% CD +0.1%	ASTM D1204-08
Resistance to puncture	333.1 N (78.6 lbs)	ASTM E154-99 (10)
Low temperature flexibility	Pass	ASTM D1970-01
Crack bridging ability	Pass -15 °F (-26 °C)	ASTM C1305-06
Flame spread	14; NFPA Class A; IBC Class A	ASTM E84-09
Smoke developed	47; NFPA Class A; IBC Class A	ASTM E84-09
Air permeance	Pass (< 0.02 l/(s x m^2) @ 75 Pa)	ASTM E2178

IMETCO Performance Inspired Solutions.

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