

Product Data

Driwall™ Air Weather Barrier (AWB) - High Permeability (HP)

Air/water Barrier - High Perm

Description

Driwall™ AWB HP is an easily applied vapor permeable air and water barrier with excellent water holdout. The acrylic-based formulation easily applied with roller or spray equipment but also can be troweled or brushed into place.

Driwall AWB HP forms a continuous air and water barrier that protects approved substrates from incidental water damage.

Approved Substrates

- ✓ Exterior gypsum sheathing (ASTM C1396)
- ✓ Glass Fiber Exterior Sheathing (ASTM C1177): Dens Glass Gold®, GlasRoc®, FiberBond®, Gold Bond e2xp®, etc.
- ✓ Cement Board Substrates: Durock®, PermaBase®, ProTEC®, SelectCrete, Util-A-Crete®, etc.
- ✓ Concrete
- ✓ Brick
- ✓ Masonry
- ✓ Exterior Plywood
- ✓ Oriented Strand Board
- ✓ Others approved in writing

Features & Benefits

Full Surface Coverage

Doesn't rattle in the wind like sheet goods

Vapor permeable with low air infiltration rate

Used as water barrier and flashing

Compatible with Driwall™ HB (High-Build/Trowel Grade)

Adheres to most common building materials

Easy to apply, water based for easy cleanup

Low VOC

VOC: <1% by Weight

VOC: 10 g/l

Vapor Open/Vapor Permeable

Packaging

5 Gallon (19L) Pail

Pail weight: 60 lbs (27 kg)

Shelf life: 2 years

Coverage (Estimated per pail)

Roller: 450-500 sf (42-46 sm)

Spray: 300-350 sf (28-32.5 sm)

Trowel: 200-230 sf (19-21 sm)

Application Properties

Dry to Touch: 1 hour @ room temperature

Recoat Time: 2 hours @ room temperature

Drying Time: 12 hours @ room temperature

Application Range: 40°-110°F (5°-43°C)

Exposure: Up to 6 months

DRIWALL™ AIR WEATHER BARRIER - HP

TEST	TEST METHOD	CRITERIA	RESULTS
Percent Solids	Calculated		69.52% solids by weight (55.05% by volume)
Tensile Bond	ASTM C297/E2134 ICC ES (AC 212)*	Minimum 15 psi (104 kPa)	Dens Glass Gold 31 (215), Exterior Gypsum 28 (194), OSB 40 (277), Plywood 79 (563), Cement Board 70 (485), Copper 185 (1282), Galvanized steel 180 (1248), PVC 168 (1165), Aluminum 184 (1275), Coated Aluminum 203 (1407), Stainless Steel 183 (1269)
Freeze-thaw	ASTM E2485/ICC-ES Proc. ICC ES (AC 212)*	No deleterious effects after 10 cycles	Pass: Plywood, Cement Board, OSB, Exterior Gypsum (ASTM C79/C1396) and Dens Glass Gold (ASTM C1377) substrates
Water Resistance	ASTM D2247 ICC ES (AC 212)*	No deleterious effects after 14 days exposure ¹	Pass: Plywood Cement Board, OSB, Exterior Gypsum (ASTM C79/C1396) and Dens Glass Gold (ASTM C1377) substrates
Water Vapor Transmission	ASTM E96 Proc. B ICC ES (AC 212)*	Vapor Permeable	30 perms ²
Air Permeance	ASTM E2178	No ICC or ANSI/EIMA Criteria ASHRAE/IECC max. 0.004 cfm/ft ² @ 1.57 psf	0.001 cfm/ft ² @ 1.57 psf 0.001 L/s/m ² @ 75 Pa
Air Leakage	ASTM E2357	No ICC or ANSI/EIMA Criteria ASHRAE/IECC max. 0.04 cfm/ft ² @ 1.57 psf	0.0006 cfm/ft ² @ 1.57 psf 0.003 L/s/m ² @ 75 Pa 0.04 cfm/ft ² @ 6.24 psf 0.02 L/s/m ² @ 300 Pa
Structural Performance	ASTM E1233 Proc. A ICC ES (AC 212)*	Minimum 10 positive cycles at 1/240 deflection; No cracking in field, at joints or interface with flashing	Pass
Racking	ASTM E72 ICC ES (AC 212)*	No cracking in field, at joints or interface with flashing at net deflection of 3.2 mm (1/8 inch)	Pass
Restrained Environmental	ICC-ES Procedure ICC ES (AC 212)*	5 cycles; No cracking in field, at joints or interface with flashing	Pass
Water Penetration	ASTM E331 ICC ES (AC 212)*	No water penetration beyond the inner-most plane of the wall after 15 minutes at 137 Pa (2.86 psf)	Pass
UV Exposure	ICC ES Proc. ICC ES (AC 212)*	210 hours of exposure, rated for 6 months of exposure	Pass
Accelerated Aging	ICC ES Proc. ICC ES (AC 212)*	25 cycles of wetting and drying	Pass
Hydrostatic Pressure Test	AATCC 127 ICC ES (AC 212)*	ICC: 549 mm (21.6 in) water column for 5 hours	Pass
Surface Burning Characteristics	ASTM E84	Flame Spread < 25 Smoke Developed < 450	Pass
Intermediate Multi-Story Fire Test	NFPA 285 (UBC 26-9)	No flame spread with up to 4" insulation	Pass
Nail Sealability	ASTM D1970	Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection	Pass (22 mils)
Heat and Smoke Release Rates	ASTM E1354, IBC Section 1403.5, Exception 2 Requirements	Peak Heat Release Rate <150 kW/m ² , Total Heat Release Rate <20 MJ/m ² , Effective Heat of Combustion <18 MJ/kg	Peak Heat Release Rate = 32 kW/m ² , Total Heat Release Rate = 3.6 MJ/m ² , Effective Heat of Combustion = 2.5 MJ/kg.

* (AC212 – Acceptance Criteria for Water-Resistive Coatings Used as Water-Resistive Barriers over Exterior Sheathing, also referred to as ASTM E 2570

1. No cracking, checking, rusting, crazing, erosion, blistering, peeling, or delamination when viewed under 5x magnification
2. Defined as a Class III vapor retarder per the 2015 IBC and IRC

Application Procedure

Job Conditions

Air and substrate temperature for application of Driwall AWB HP must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours. Provide temporary protection to protect the wall system from damage until permanent flashings, caps and sealants are installed. Store materials within prescribed temperature limits and out of direct sunlight. Working and drying times are based upon normal room temperature conditions and will vary with temperature and humidity.

Preparation

The substrate must be approved by Keene, clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds or anything that would affect bond. Painted surfaces are not acceptable and must be removed or bond test performed. Substrates must be flat and free of fins or planar irregularities greater than 1/4" in 10'-0" (6.35 mm in 3.05m).

Concrete

Must have cured a minimum of 28 days prior to the application of Driwall AWB HP. If form release agents or curing compounds exist on the surface, they must be removed with a solution of muriatic acid or similar product (with appropriate precautions). Remove any residual acid by flushing with water.

Brick/Masonry

If joints are not struck flush, multiple coats may be required. Contact Keene for more information.

Sheathing Applications

Sheathing gaps must be less than 1/4" (6.4 mm). Fill gaps larger than 1/4" (6.4 mm) with additional sheathing or approved paintable filler. Gap wood-based sheathing per manufacturers recommendations, typically 1/8" (3.2 mm) minimum.

Mixing

Thoroughly stir Driwall AWB HP into a homogenous consistency. Do not add water, over mix, or add accelerators or retarders to Driwall AWB HP.

Application

Driwall AWB HP is applied by first treating the joints and fastener locations where sheathing is used, then coating the entire surface using brush, roller, trowel or airless spray equipment techniques. When using a foam roller, a maximum 3/4" (19 mm) nap is recommended. Apply Driwall AWB HP in an even, continuous coat, maintaining a wet edge of approximately 15 mils thickness. Oriented Strand Board and other porous substrates require two (2) coats of Driwall AWB HP. For moisture protection, Driwall AWB HP must be applied as a continuous barrier of 10 mils dry thickness with no breaks or skips, although some areas will appear lighter than others due to the application process. The Driwall AWB HP application need not look like a painted surface.

Joint Treatment

Apply a thin layer of Driwall AWB HP to the joints and embed Driwall™ SF 4 or 6 Seam Fabric into the wet mixture and trowel smooth and allow to dry. Driwall AWB HP may be flashed into window, door and other openings using the same techniques for sheathing applications. Any remaining gaps should be filled with Driwall AWB HB.

Wall Treatment

Apply Driwall AWB HP to the wall surface using the foam roller, trowel or by spray applying and backrolling to a uniform thickness of 15 mils wet, 10 mils dry with no pinholes or voids.

Clean Up

Tools and equipment can be cleaned with soapy water when Driwall™ AWB HP is wet.

Limitations

Not for use as an exterior finish, note exposure limitations on front page.

Allowable in-service temperature range: -40° to 180°F (-40° to 82°C).

Fire-retardant or pressure treated plywood must be dry with surface free of salts or other chemicals migrating from within the wood. Test adhesion to be sure of desired results.

Use a slip sheet, typically one layer of building paper or Driwall™ Rainscreen between Driwall AWB HB and stucco or adhered masonry veneer over metal lath.

Spray Application

Driwall AWB HP is compatible with GRACO and Titan airless spray equipment with the following specifications:

- Minimum 1 gallon per minute output.
- Minimum hose width of 3/8 inch.
- Minimum tip size of 0.027–0.031.

Minimum pressure requirement to spray of 2,000 psi at the gun with an airless sprayer rated no lower than 3,300 psi.

Remove all filters in sprayer and gun before application. Hopper Gun: 3/16"-1/4" (6-6.5 mm) orifice, 23-25 psi.

LIMITED WARRANTY: Keene Building Products, Inc. warrants to the initial purchaser only that the goods sold hereunder will be free from defects in material and workmanship and, except as otherwise set forth herein, will conform to the specifications provided. If any failure to meet this warranty appears within one year from the date of shipment of the goods, on the condition that Keene Building Products, Inc. will correct any such failure by either replacing or repairing any defective goods, at Keene Building Products, Inc.'s option.

The preceding paragraph sets forth the exclusive remedy for all claims based on failure of or defect in the goods sold hereunder, whether such failure or defect arises before or during the warranty period and whether a claim, however instituted, is based on contract, indemnity, warranty, tort (including negligence), strict liability or otherwise. The forgoing warranty is exclusive and is in lieu of all other warranties whether written, oral, implied or statutory.



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