Product Information
Decoplast Air Water Resistive Class III Vapor Permeable Barrier

DESCRIPTION:

The Decoplast **Air Water Resistive Barrier** is a flexible**, single-component Class III fluid-applied**, polymer-based, non-cementitious membrane. It features low-temperature application properties, effectively resists water penetration, eliminates air infiltration, and allows vapor permeability for balanced moisture management. Designed for vertical exterior, above-grade walls, penetrations, and rough openings, this durable waterproof coating is compatible with various substrates and can be applied using a sprayer, roller, brush, or trowel. It offers reliable secondary moisture protection for a wide variety of wall claddings such as EIFS, DEFS, stucco*, brick, siding, and metal panels. Recognized under ICC ESR-3428, it ensures long-lasting performance in modern construction projects.

Available in two versions depending on the substrate:

Decoplast Air Water Resistive Barrier TEXTURE (GRAY) - Texture is applied using a trowel, roller, or texture spray equipment.

Decoplast Air Water Resistive Barrier SMOOTH (GREEN) - Smooth is applied by roller, texture spray equipment, or airless spray equipment.

ICC ESR- evaluation report confirms compliance with IBC, IRC and IECC requirements. Approved for projects requiring ABAA specifications and quality assurance. <1% of allowable air leakage tested per ASTM E2357, easily meets air tightness requirements per ASHRAE 189.1 and 90.1 and ABAA. One component, easy to apply formulation that meets low VOC requirements in all 50 states. Nonflammable as applied. Will not dry out or crack due to loss of plasticizer over time. Cleans up with water; solvents and citrus based cleaners are not required. Low temperature application down to 25°F (-4°C).

FEATURES	BENEFITS
Fluid Applied	Easy to use. One component. For walls, rough openings and terminations. Ensures a continuous air and water-resistant film with antimicrobial properties
Vapor Permeable	Rated Class III medium permeability. Minimizes risk of condensation
Building Code Compliance	Meets ICC-ES AC212. Passed Miami Dade HVHZ TAS 201, 202, and 203 High Velocity Hurricane Testing
Ensures a continuous film barrier across transitions, rough openings and penetrations	No need for multiple products
Structural Integrity	No air or water leakage between sheathing or block assembly under air pressure loads; does not tear or blow off the wall with wind.
Cold Weather Application	25 °F (-4 °C) and rising
Resists UV Degradation / Added Durability	Allows flexible construction scheduling with an 180-day outdoor exposure rating.

PRODUCT CONSIDERATIONS AND JOB CONDITIONS

The application range is at ambient temperatures between 25°F (-4°C) and 100 F (38°C) during application and drying time. Do not apply if substrate or ambient temperature is less than 25°F (-4°C) or if temperature will go below 25°F (-4°C) at any time during the application or drying period.

Expect extended dry time for cold temperature applications less than 40°F (4°C) down to 25°F (-4°C). Final air/water-resistive properties and film durability rely on temperatures rising above freezing (32°F/0°C).

Walls should be capped to prevent moisture and precipitation from entering walls during construction.

Dry/cure times of adhered EPS insulation board installed over Decoplast Air Water Barrier may be prolonged, particularly in cool and/or damp weather. Non-cementitious adhesives are not recommended for EPS insulation board attachment to Decoplast Air Water Barrier. Proper application is the responsibility of the user.

A minimum of two 10-mil wet coats of Decoplast Air Water Barrier is required over OSB, Plywood and CMU. Decoplast Air Water Barrier may be sprayed to a 20-mil thickness over OSB, plywood, concrete and CMU in one wet application. Back rolling may be needed to produce a pinhole-free film.

Ensure all fasteners are spotted with Decoplast Air Water Barrier

Prior to application of claddings, visually inspect the Decoplast Air Water Barrier for voids, pinholes, surface deficiencies, etc. Repair deficiencies and areas that are not intact. Apply additional Decoplast Air Water Barrier as necessary, so the barrier is free of voids, pinholes, etc. All sheathing joints, terminations, inside and outside corners must be reinforced with Sheathing and Transition Fabric embedded in Decoplast Air Water Barrier or DecoShield transition membrane.

Treat expansion joints with DecoShield transition membrane, provide sufficient slack at joint to allow for movement.

USES / SUBSTRATES:

a. Core treated exterior grade gypsum sheathing meeting ASTM C 1396 (formerly C 79).
b. Core treated exterior grade gypsum sheathing with fiberglass mat facers meeting ASTM C 1177.
c. Exterior fiber reinforced cement or calcium silicate boards.
d. APA Exterior or Exposure 1 Rated Plywood, Grade C-D or better, nominal 1/2 in (12.7 mm) minimum, installed with the C face out.
e. APA Exterior Grade Fire Retardant Treated Plywood, nominal 1/2 in (12.7 mm) minimum, installed with the C face out.
f. APA Exposure 1 Rated OSB, nominal 1/2 in (12.7 mm) minimum. Note: NTX– Texture is not recommended for the field of wall application over OSB.
g. Unpainted, unsealed concrete and CMU.

Approximate Coverage:

Glass-Mat Gypsum Sheathing:
450-500 ft^2 (42-51 m^2) per pail when applied 10 -12 WFT mils

Plywood Sheathing:
550 - 600 ft^2 (51-56m^2) per pail when applied 10 -12 WFT

OSB Sheathing:
350-550 ft^2 (32-51m^2) per pail when applied 12 - 16 WFT

Cement Board:
450 - 500 ft^2 (42-51 m^2)) WHEN applied 10 mils WFT

CMU: (textured)
100 - 300 ft^2 (9.3 - 28m^2) per pail when applied **IN TWO COATS** at 10 - 30 wet mils per coat.

Smooth Concrete: Texture AWB recommended. Apply one coat at minimum 20 mils WFT.

Coverage may vary depending on substrate condition, application method/technique, waste factor, and final film thickness. CMU will generally be on the lower end of the coverage range.

When used to embed Decoplast Sheathing Fabric to treat the sheathing joints and rough openings: (coverage may vary based on condition)

4” Sheathing Fabric—625 ft (190.5m) / pail
9” Sheathing Fabric—275 ft (87m) / pail
Roll or spray and back roll for optimum coverage. Actual results may vary depending on surface porosity, roughness, and other factors

Drying Time: Drying time depends upon the air temperature, wind conditions,

and relative humidity. Under average drying conditions {70°F (21°C). 55% RH, material should be dry to the touch within 2 hours and cure in 6—10 hours.

Packaging
5 gallon (19L) 52.5 lbs. / 23.8 kg per pail

Shelf Life
24 months, if properly stored and sealed.

SURFACE PREPARATION:
Sheathing board gaps shall not exceed 1/4 in (6.4 mm) and the surface must be flat within 1/4 in (6.4 mm) in any 4 ft (1.2 m) radius.

CMU mortar joints shall be struck flush (tooled mortar joints and heavily textured CMU [not split faced] shall be skimmed with Decoplast Base Coat prior to application of the Decoplast Air Water Barrier. CMU shall be clean, unpainted, and free of efflorescence. All substrates shall be dry and free of foreign materials such as dirt, dust, oil, paint, wax, water repellants or other materials that inhibit adhesion.

Concrete: Shall have cured a minimum of 28 days prior to application of the Decoplast Air Water Barrier. If efflorescence, form release agents or curing compounds are present on the concrete surface, the surface shall be thoroughly washed with muriatic acid and flushed to remove residual acid. All projections shall be removed, and small voids filled with Decoplast Base Coat mixture (see product data sheets for mixing and application).

All substrate transitions and gaps between openings and penetration components such as windows, doors, electrical boxes, etc., shall be treated with Decoplast Air Water Barrier and reinforced with Decoplast Sheathing and Transition Fabric or DecoShield transition fabric. Any sealants used shall be tested for compatibility and comply with ASTM C 920.

MIXING: Material is ready for use after an initial spin-up using a drill with paddle mixer.

APPLICATION:

For best results apply between 40° and 100°F (4° and 38°C) during application and drying period. Apply only to fully cured, structurally sound, clean, dry, properly prepared, frost-free surfaces.

Apply Decoplast Air and Water Barrier to the prepared substrate using a ½ or ¾ inch (13 or 19mm) nap roller or airless spray equipment. The suggested tip size is .031. Pressure and tip size may vary depending on the equipment used. It is recommended to back roll spray applications over OSB and CMU substrates. Apply uniformly to achieve a VOID and PINHOLE free surface.

Cold Temperature Application: Decoplast Air Water Barrier can be applied at temperatures less than 40° down to 25°F (4° down to -3.8°C), provided certain conditions are met.

1. Material is pre-conditioned to 65°-75°F (18°-24°C)
2. Substrate and ambient temperatures are minimum 25°F (3.8°C) and rising at the time of application and do not fall below 25°F (-3.8°C) until material is fully dry.
3. Materials are installed over standard sheathing substrates – glass mat gypsum, plywood, or OSB.
4. Substrate surfaces are frost-free, dry and remain dry.
5. Materials are installed at a wet film thickness of no greater than 10-12 WFT
6. Materials are installed in dry weather and protected from rain or other precipitation for at least 24 hours and relative humidity (RH) remains at or below 50%.
7. IMPORTANT: Final water-resistive barrier and air barrier material properties, and film toughness, depending on temperatures rising above freezing.

Spray Application Method: Airless Spray Equipment Only
Recommended Specs: High-pressure airless sprayer (e.g., Graco 733, 833, or similar) Tip size: 0.031"–0.035" Minimum pressure: 3000 psi Hose: 3/8" or 1/2" diameter, rated for high pressure
Apply Decoplast Sheathing and Transition Fabric on sheathing joints – gaps in sheathing up to 1/4 in. (6mm) wide – Open holes up to 1 in. (25mm) across – back flanges of flashings and track – Immediately place the Decoplast Sheathing Fabric centered in the wet Decop0last Air Water Barrier and embed it. Do not let material skin over before applying Sheathing Fabric. After the Sheathing Fabric is completely embedded, apply Decoplast Air Water Barrier over the entire outer surface. Normal irregularities in the profile will occur in OSB, plywood, cement board and CMU, therefore a variation in dry film thickness is normal. The transparency of the dry Decoplast Air Water Barrier is not an indication of the thickness. For specific installation details refer to Decoplast Air Water Resistive Barrier Details.

CAUTIONS & LIMITATIONS:

Shall not be used below grade or on surfaces that will be subjected to water immersion. Should not be used to treat holes or sheathing joints exceeding 1/4 in (6.4 mm). When used beneath Portland cement stucco or adhered stone products, paper backed lath shall be installed over Decoplast Air Water Barrier as a slip sheet. Product can be exposed to weather for up to 180 days to provide sufficient time for installation of the cladding. Inspect the surface for any damage, cracks, voids or other detrimental conditions and repair prior to installation of the cladding.

CLEAN UP: Clean tools and equipment with water while product is still wet.

WARNING: Read complete warning information printed on product container prior to use. For more information on handling this product refer to its Safety Data Sheet (SDS). The most current SDS and Product Data Sheet (PDS) can be found on our website. This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about the guidelines for the proper use and application of the covered product(s) under normal environmental and working conditions. Because each project is different, Greenmaker Industries. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions

LIMITED WARRANTY

This product is subject to a written limited warranty which can be obtained free of charge from Greenmaker Industries. Refer to Decoplast Specifications for more complete information on proper use and handling of this product.

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Technical Data

Report	Test Method	Test Criteria	Test Result
% Solids (by Volume)	Calculation	N/A	59%
Rate of Air Leakage	ASTM E283 / TAS 202	0.06 cfm/ft^2 max.	@ 1.57 psf Pass <0.01 cfm/ft^2 @ 6.24 psf Pass <0.01 cfm/ft^2
Air Permeance of Building Materials	ASTM E2178	<0.02 L/S/m^2 @ 75 Pa	Pass
Air Leakage of Air Barrier Assembly	ASTM E2357	< 0.2 L/s m^2 @75 Pa < 0,04 cfm/ft^2 @ 1.57 psf	Pass
Water Resistance	ASTM E2570 / ASTM D2247	No deleterious effects such as cracking or crazing	Pass – No deleterious effects
Water Vapor Permeability	ASTM E96 Method B / ASTM 2570	Measure	11.34 perms
Surface Burning	ASTM E84	Flame Spread: <25 Smoke Developed: <450	Flame Spread: 0 Smoke Developed: 5
Elongation	ASTM D412	N/A	432%
Tensile Strength	ASTM D412	N/A	328 psi
Tensile Strength	ASTM E2570/C297	>15 psi	Densglass – Pass Decoshield Fabric - Pass Bottom Track – Pass Flashing material - Pass
Water Penetration Resistance	ASTM E331	15% of Positive Design Pressure at 22.5 psf - No leakage	Pass – No leakage
Pull Off Adhesion Strength	ASTM D7234	>15 psi	163 psi Concrete substrate
Low Temperature Flexibility	ASTM D522	N/A	No cracking or visible deleterious effects
Freeze Thaw Resistance	ASTM E2570 / E2485	No delamination or surface changes such as cracking or crazing	Pass – No delamination or surface changes
Adhesion to Substrates	ASTM E2570/C297	> 15 psi	>15 psi over glass mat gypsum sheathing >50 psi over, CMU, OSB & Plywood Sheathing
Mold Resistance	ASTM D3273	No mold growth after 28 days	Pass
Accelerated Weathering / Ultraviolet Light Exposure / Hydrostatic Pressure	ASTM E2570 / AATCC 127 (modified)	No cracking of the coating or bond failure between the WRB and substrate: no water penetration on the plane of the exterior facing side of the substrate	Pass – No deleterious effects or any sign of water penetration
Fire Performance	NFPA 285	Complies with acceptance criteria	Pass

Building Code Compliance	Compliance with the following codes: 2024, 2021, 2018, 2015, 2012 and 2009 International Building Code® (IBC) n 2024, 2021, 2018, 2015, 2012 and 2009 International Residential Code® (IRC) n 2024, 2021, 2018, 2015, 2012 and 2009 International Energy Conservation Code® (IECC). Refer to ICC-ESR 3428
VOC Compliance	Product complies with US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) VOC emission standards for Building Envelope Coating as the VOC content is less than 50 g/L

ATTENTION/IMPORTANT

This product is intended for use by qualified professional contractors, not consumers, as a component of a larger construction assembly as specified by a qualified design professional, general contractor or builder. It should be installed in accordance with those specifications and Decoplast instructions. Greenmaker Industries LLC. disclaims all, and assumes no, liability for on-site inspections, for its products applied improperly, or by unqualified persons or entities, or as part of an improperly designed or constructed building, for the nonperformance of adjacent building components or assemblies, or for other construction activities beyond Greenmaker Industries control. Improper use of this product or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to this product, and to the structure of the building or its components. GREENMAKER INDUSTRIES. DISCLAIMS ALL WARRANTIES EXPRESSED OR IMPLIED EXCEPT FOR EXPLICIT LIMITED WRITTEN WARRANTIES ISSUED TO AND ACCEPTED BY BUILDING OWNERS IN ACCORDANCE WITH DECOPLAST WARRANTY WHICH ARE SUBJECT TO CHANGE FROM TIME TO TIME. For the most current information on proper application, clean-up, mixing, specifications and additional information please refer to the Decoplast website, www.decoplast.com.

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