

GUARD IT PRO

Is a fluid-applied air barrier, Class 1 vapor barrier and water-resistive barrier (WRB). It can be used as a component of all GUARD IT PRO wall systems, and is suitable for use behind most exterior claddings including rainscreen, metal, wood, stone, brick, and masonry.

USES

For use over the following substrates: Vertical above grade concrete or unit masonry, brick, untreated exposure I or exterior plywood sheathing (Grade C-D or better), OSB, Zip Sheathing (sheathing only) ASTM C 1177 glass mat gypsum sheathing, or cement board meeting ASTM C 1325 Type A Exterior Grade.

Do not use below grade or on surfaces subject to water immersion.

FEATURES	BENEFITS
Fluid Applied	Easy to use. Ensures a continuous air and water resistant film across the substrate and transitions.
Class I vapor Retarder	0.09 perms measured per ASTM E96
Bond Strength	No air leakage between sheathing and GUARD IT PRO; rigid/stable under air pressure loads; does not tear or blow off the wall with wind
Resists UV Degradation / Added Durability	180 days/6 months exposure rating during construction.
One component, water-based, very low VOC content	Safe for workers and the environment, low odor, easy application
Safe Installation	Low VOC, non-flammable as applied. Easy, fast installation; does not require specialized spray equipment or highly skilled labor

PROPERTIES

Drying Time: Drying time is dependent 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.

Job Conditions: 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.

Acceptable Substrates: All sheathing substrate joints must be reinforced with GUARD IT PRO Sheathing Fabric embedded in GUARD IT PRO prior to the application over the full sheathing surface.

- Core treated exterior grade gypsum sheathing meeting ASTM C 1396 or core treated exterior grade gypsum sheathing with fiberglass mat face meeting ASTM C 1177.
- Exterior fiber reinforced cement or calcium silicate board.
- APA Exterior or Exposure Rated Plywood, Grade C-D or better, nominal 1/2 inch (12.7 mm) minimum, installed with the C face out.
- APA Exterior Grade Fire Retardant Treated Plywood, nominal 1/2 inch (12.7 mm) minimum, installed with the C face out.
- APA Exposure 1 Rated OSB, nominal 1/2 inch (12.7 mm) minimum.
- Unpainted, unsealed concrete, and CMU.

GUARD IT PRO is a one component fluid applied that also functions as a low perm Class 1 vapor retarder. It provides excellent secondary moisture and vapor protection behind most wall claddings including siding, metal panels, brick, EIFS and stucco wall assemblies.*

* A slipsheet is required for stucco cladding.

Approximate Coverage:

Glass-Mat Gypsum Sheathing:
290ft² (27 m²) per pail when applied 26 MILS WFT

Plywood/OSB Sheathing:
265ft² (24 m²) per pail when applied 26 MILS WFT

CMU:
80–150 ft² (7–14m²) per pail depending on porosity.

Poured Concrete:
290ft² (27 m²) per pail

Coverage may vary depending on substrate condition, application method/technique, waste factor, and final film thickness.

When used to embed GUARD IT PRO 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—285 ft (87m) / pail

** Roll or spray and back roll for optimum coverage. Actual results may vary depending on surface porosity, roughness, and other factors.*

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

Shelf Life
24 months, if properly stored and sealed.

Storage
Store in a cool, dry place protected from freezing. Store at no less than 4°C (40°F). Protect from extreme heat and direct sunlight.

GUARD IT PRO**TECHNICAL DATA**

GUARD IT PRO Weather Resistive Barrier	Method	ICC and ASTM E2570 Criteria	Results
Air Leakage Resistance Air Permeance of Building Materials	ASTM E 2178	0.004 cfm/ft ² @ 1.57 psf	Pass
Water Vapor Permeability	ASTM E96 Method A	Value	0.09 Perms (grains/Hr. ft ² @ 26 mils wet film thickness)
Air Leakage of Air Barrier Assemblies	ASTM E2357	Pass < 0.2 L / s·m ² at 75 Pa) [< 0.04 cfm / ft ² at 1.57 psf]	Pass
Pull off Strength	ASTM D 4541	>15 psi (103 kPa) or substrate failure	Pass
Elongation	ASTM D412	No Criteria	360%
Nail Seal ability, Head of Water	ASTM D1970	No leakage	Pass
Evaluation of Fire Propagation	NFPA 285	In Accordance with IBC Chapter 26	Meets requirements for use on all Types of construction
Radiant heat exposure	NFPA 268	In Accordance with IBC Chapter 26	No ignition upon 20 minute radiant heat exposure at 1.25 w/cm ² .
Pull off Strength	ASTM D 4541	No Water Penetration	Pass: No water penetration
Surface Burning Characteristics	ASTM E84	ICC and ASTM E2568 Flame Spread <25 Smoke Developed <450	Flame Spread =0 Smoke Developed =0
Tensile Bond Strength	ASTM E 2134/ ASTM C 297	Minimum 15 psi (104 kPa)	Pass: All listed substrates and flashing materials
Water Resistance	ASTM D 2247	14 Days	Pass: No Deleterious Effects
Water Penetration	ASTM E331	Tested after Structural Loading, Racking and Restrained Environmental Cycling at 2.86 psf (137 Pa) for 15 minutes	No Water Penetration
Weathering	ICC ES AC 212 / ASTM E2570	210 hours of UV Exposure, 25 cycles of accelerated weathering, 21.6 in (549 mm) water column for 5 hours	Pass
Building Code Compliance	Meets requirements of 2018 IBC, IRC, and IECC as an air barrier and water resistive barrier and complies with ICC AC 212 and ASTM E2570.		
VOC Compliance	Complies with US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) VOC emission standards for Building Envelope Coatings, VOC less than 50 g/L		

GUARD IT PRO

PRECAUTIONS AND LIMITATIONS

Apply to acceptable substrates only.
Do not store at or below freezing temperatures.
Application range is at ambient temperatures between 25° and 100°F (-3.8° and 38°C) during application and drying period. Follow **special instructions for cold temperature application if installing below 40°F (4°C)**. Do not apply if the substrate temperature is less than 25°F (-3.8°C), or if temperatures will go below 25°F (-3.8°C) at any time during the application or drying period.
Do not apply if the surface temperature is less than 5°F (2.8°C) above the ambient dew point temperature.
Do not use below grade or on surfaces subject to prolonged or continued water immersion.
Fire retardant or pressure treated plywood must be dry with the surface free of salts or other chemicals that tend to migrate out of these kinds of substrates. Test adhesion to be sure of desired results.
Use a slip sheet, typically one layer of building paper, or GUARD IT PRO Rainscreen between GUARD IT PRO and stucco or adhered masonry veneer over metal lath.

SURFACE PREPARATION

Surfaces shall be structurally sound, dry, clean, sound and free of frost, damage, and all bond inhibiting materials, including dirt, dust, efflorescence, release agents, paint or other residue or coatings. Damaged sheathing must be re-moved and replaced. Sheathing must be installed in compliance with the building code and sheathing manufacturers recommendations.

Treat sheathing joints, inside and outside corners, rough openings, and transitions with appropriate GUARD IT PRO transition components. Sheathing joints shall not exceed 1/8 inch (0.125 mm) and surface must be flat within 1/4 inch (6.4 mm) in any 4 ft (1.3 m) radius. CMU mortar joints shall be struck flush (tooled mortar joints and heavily textured CMU shall be skimmed with GUARD IT PRO Base Coat prior to the application of the AWB. CMU shall be clean, unpainted, and free of efflorescence.

Concrete shall have cured a minimum of 28 days prior to the application of the GUARD IT PRO. All projections shall be removed, and small voids filled with GUARD IT PRO Base Coat.

All substrate transitions, gaps, openings and penetrations such as windows, doors, electrical components, etc., shall be treated with a GUARD IT PRO transition membrane. See GUARD IT PRO details for recommendations.

MIXING

Mix to a uniform consistency with an electric drill and clean, rust free paddle. Do not thin or dilute with water.

APPLICATION

Exterior Gypsum Sheathing, Glass Mat Sheathing, Exterior Plywood, and Oriented Strand Board (OSB); apply GUARD IT PRO to the prepared substrate using a 1/2 inch (13 mm) nap roller or airless spray equipment that supports minimum 1 gallon (3.8 L) per minute. Suggested tip size is .031. Pressure and tip may vary depending on equipment. Apply uni-formly at recommended wet mil thickness. CMU surfaces: apply minimum 2 coats uniformly by airless spray at 10–30 wet mils per coat, allowing the first coat to set slightly, then doubling back with a second coat. CMU surfaces may require back rolling of the first coat with a 3/4 or 1 inch (19 or 25mm) synthetic nap roller depending on porosity, joint profile, or other variables.

Additional Information: OSB substrates may require touch-up. CMU substrates may require more than 2 coats depending on joint profile. Make sure to achieve a **VOID AND PINHOLE FREE SURFACE ON ALL SUBSTRATES**. Wait 24 hours before adhesive attachment of GUARD IT PRO insulation board. Protect from rain and freezing until completely dry.

HEALTH AND SAFETY

As with any chemical construction product, exercise care when handling. Product is water-based.

WARNING!

May causes eye and skin irritation.

Precaution Measures:

Wash hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid:

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Spills

Contain and collect with a suitable absorbent material such as cotton rags.

Disposal

Dispose of in accordance with local, state or federal regulations.

Warning

KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. Consult the Safety Data Sheet (SDS) for further health and safety information.

LIMITED WARRANTY

This product is subject to a written limited warranty. Refer to GUARD IT PRO Specifications for more complete information on proper use and handling of this product.