

Tique Wall Systems Aqua Guard

Tique Wall Systems Aqua Guard—Smooth

TECHNICAL DATA

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
Tensile Bond	ASTM E2568-09e1 ASTM c297/297M-04(2010)	Min. 15 psi (103kPa)	Substrate Minimum 20psi; 139 kPa Liquid Weather Barrier Flashing Minimum 70psi; 485 kPa
Water Resistance	ASTM E2568-09e1 ASTM D2247-11	14 Day exposure	Pass
Water Vapor Transmission	ASTM E2570 ASTM D2247-11	Vapor Permeable	Pass
Air Leakage	ASTM E283		.02 L/Min./m2
Water Penetration	ASTM E331	No water penetration beyond the inner most plane of the wall after 15 min @ 2.86psf	Pass
Air Permeance	ASTM E2178-11		<0.02 L/s/m ² @ 75Pa
Puncture Resistance	Lab Test	N/A	31.5 lbs
Racking	ASTM E72	No cracking; net deflection 1/8"	Pass
Transverse Load	ASTM E1233 AC-212	10 cycles	Pass
Tensile Bond	ASTM C297 ASTM E2134		Pass
Structural Performance	ASTM E1233 Proc A	10 cycles	Pass
Flame Propagation	NFPA-285		Pass; UL Certified
Radiant Heat Ignition	NFPA-268	No Flame Spread / Ignition	Pass
VOC (g/L)	This product complies with US EPA, South Coast AQMD and Greenseal Standard VOC emission standards for architectural coatings. VOC less than 3 g/L. % Solids (by volume) Calculated 65%		

Tique Wall Systems Aqua Guard is a one-component, fluid-applied vapor permeable air/water-resistive barrier. It is applied directly to vertical, above-grade approved wall substrates and provides an excellent waterproof air barrier when combined with Tique Wall Systems joint and rough opening treatment. Available with or without aggregate.

Coverages per pail:

- Glass-Mat Gypsum Sheathing:
420-520 ft² (39-48.3 m²)
- Exterior Gypsum:
420-520ft² (39-48.3m²)
- Cement Board:
450-600 ft² (41.8-55.7 m²)
- Poured Concrete:
450-600 ft² (41.8-55.7m²)
- Plywood*:
135-175 ft² (12.5-16.3 m²)
- OSB*:
135-175ft² (12.5-16.3 m²)
- CMU Standard Weight*:
225-275 ft² (20.5-25.5 m²)

*Coverage for C-1177 sheathing, cement board, poured concrete is at 10 mils WFT; for Plywood, OSB and CMU are at 20 mils WFT.

When used with Tique Wall Systems Sheathing Joint Tape to treat the sheathing joints and rough openings: (coverage may vary based on condition)

- 0'-4" Sheathing Fabric 625 ft (190.5m) / pail
- 0'-6" Sheathing Fabric 425 ft (129.5m) / pail
- 0'-9" Sheathing Fabric 285 ft (87m) / pail

Packaging

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

Shelf Life

24 months, if properly stored and sealed.

Storage

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

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FEATURES	BENEFITS
Waterproof	Possible water damage minimized with repair and restoration costs associated
Vapor Permeable	Condensation risk in wall minimized from water vapor diffusion
Structural with wind	No air leakage between sheathing and Tique Wall Systems WRB; rigid/stable under air pressure loads; does not tear or blow off the wall
Resists UV Degradation / Added Durability	180 day exposure rating during construction.
Low VOC formulation	Safe, non-toxic; VOC compliant

SURFACE PREPARATION

Substrate shall be dry, clean, sound and free of release agents, paint or other residue or coatings. Damaged sheathing must be removed and replaced. Avoid application over irregular surfaces.

Substrate to be coated must be continuous without joints, holes, etc. exceeding 1/32" (0.8 mm) in size. Sheathing must be properly installed as required by applicable building codes or sheathing manufacturer.

MIXING

Mix with a clean, rust-free electric drill and paddle until thoroughly blended.

DILUTION OF TIQUE WALL SYSTEMS LIQUID WEATHER RESISTIVE BARRIER IS NOT RECOMMENDED

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APPLICATION

Clean, dry, properly prepared, frost-free surfaces are needed for application. Tique Wall Systems joint and rough opening treatment required for sheathing joints, inside and outside. Spot fasteners, knots or other voids in sheathing surface. Pre-spot all fasteners with Tique Wall Systems Aqua Guard if using Tique Wall Systems Sheathing Fabric including all other voids and spot surface defects such as overdriven fasteners, knots and voids.

Gypsum Sheathing, Glass-Mat Gypsum Sheathing, Exterior Plywood / Exterior: Apply Tique Wall Systems Aqua Guard to prepared substrate using spray equipment that can support a minimum 1 Gallon per minute (GPM) and a .031 mil tip at 3000+ psi., or with the appropriate size nap roller in a single, uniform coating at a wet thickness of 10 mils. Application over Glass-Mat Gypsum Sheathing, plywood and exterior gypsum sheathing: use a 1/2" (13 mm) nap roller.

Oriented Strand Board (OSB): A two-coat application of Tique Wall Systems Aqua Guard is required over OSB. The first coat is applied over the prepared substrate prior to treating sheathing joints, rough openings, and corners. Apply Tique Wall Systems Aqua Guard by spray or roller with a 1/2" (13mm) nap roller in a single, uniform coating at a wet thickness of 10 mils and allow drying. For air barrier, sheathing joints, rough openings, and corners must then be covered with Tique Wall Systems joint treatment. Substrate to receive the second coat of Tique Wall Systems Aqua Guard must be continuous without joints, holes, etc. exceeding 1/32" (0.8 mm) in size. The second coat of Tique Wall Systems Aqua Guard must be applied over the treated surface in a single, uniform coating to a wet thickness of 10 mils.

Concrete Masonry Wall Construction:

Concrete masonry wall construction must be structurally sound, clean, dry, and free from damage, frost, and all bond-inhibiting material, including dust, dirt, mold, algae, and efflorescence. Repair cracks up to 1/8 inch (3 mm) wide by filling. Rake the crack with a sharp tool to remove loose or friable material, and blow clean with oil-free compressed air. For cracks wider than 1/8" (3 mm) and up to 1/4" (6 mm) wide, use a paintable acrylic latex caulk to fill the crack, tool flush with the surface, and allow drying completely. For moving cracks consult a structural engineer. Protect crack repair materials from rain and freezing until dry.

Air and Moisture Barrier:

Spray-applied over CMU: Apply Tique Wall Systems Aqua Guard uniformly with suitable spray equipment. Backroll to fill the surface and allow drying. Apply a second uniform coat of Tique Wall Systems Aqua Guard and back-roll to achieve void / pinhole free surface. Depending on the condition of the surface, a minimum of 10 wet mils up to a maximum of 30 wet mils per coat is required. Apply additional coats if needed to achieve a VOID / PINHOLE FREE surface.

Roller-applied over CMU: Apply Tique Wall Systems Aqua Guard uniformly with a 3/4 inch (19 mm) nap roller and allow drying. Apply a second uniform coat of Tique Wall Systems Aqua Guard to achieve a void and pinhole free surface. Depending on the condition of the surface a minimum of 10 wet mils up to a maximum of 30 wet mils per coat is required. Apply additional coats if needed to achieve a VOID AND PINHOLE FREE surface.

IMPORTANT NOTE: Tique Wall Systems Aqua Guard functions as a waterproof air barrier on normal weight concrete masonry unit wall construction with flush (struck flush with the surface of the CMU) or concave joints when a minimum of two liberal coats are applied. Additional coats may be necessary depending on the condition of the CMU wall surface, CMU porosity, joint profile, and other variables that may exist. For "rough" CMU wall surfaces, skim coat the entire surface with Tique Wall Systems cementitious leveler before application of Tique Wall Systems Aqua Guard. A VOID AND PINHOLE FREE SURFACE must be achieved for Tique Wall Systems Aqua Guard to properly function as a waterproof air barrier on CMU wall surfaces.

Curing/Drying

Tique Wall Systems Aqua Guard is dry to touch and can be over coated within 2-4 hours under normal conditions [70°F (21°C), 50% RH]. Wait 24 hours before adhesive attachment of Tique Wall Systems insulation board. Final drying varies depending on temperature / humidity and surface conditions. Protect from rain and freezing until completely dry.

Material Storage

Keep containers covered to protect from skinning. If skin forms, remove the skinned material from container; remaining material is unaffected by skinned material.

Clean Up

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

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LIMITATIONS

- Apply only when the surface and ambient temperatures are above 40°F (4°C) and below 100°F (38°C) during application and drying period.
- Not recommended for use when cool, damp conditions exist for prolonged periods. Cool, damp conditions retard drying and may require extended periods of protection.
- Do not use on damp surfaces, below grade, or on surfaces subject to water immersion.
- Not recommended for use over fire-retardant treated or pressure treated plywood substrates.
- Not recommended for spanning sheathing joints or holes in excess of 1/8" (3 mm) wide.
- Contact Tique Wall Systems Technical Service for additional information regarding coverage over different brands.
- Ventilate temporary heaters to the exterior to prevent water vapor from accumulating on or within the wall assembly materials.
- Tique Wall Systems Aqua Guard can be left exposed to weather for up to 6 months of installation to protect the substrate.
- When Tique Wall Systems Aqua Guard is used in conjunction with Tique Wall Systems Continuous Insulation Systems ensure the Tique Wall Systems Aqua Guard surface is clean, dry, and free of surface contamination. Install Tique Wall Systems Continuous Insulation System Board within 30 days of the application of Tique Wall Systems Aqua Guard, or clean the surface and recoat with Tique Wall Systems Aqua Guard.
- For Portland cement stucco and similarly constructed wall assemblies over metal lath contact Tique Wall Systems Technical Service.

HEALTH AND SAFETY

Health Precaution

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

WARNING!

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 Tique Wall Systems Specifications for more complete information on proper use and handling of this product.



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This product is intended for use by qualified professional contractors. All information conforms to the standard detail recommendations and specifications for the installation of Tique Wall Systems and is presented in good faith as of the date of publication of this document. GREENMAKER INDUSTRIES ASSUMES NO LIABILITY, EXPRESSED OR IMPLIED, AS TO THE WORKMANSHIP, ENGINEERING OR ARCHITECTURE OF ANY PROJECT. For more information regarding this product or additional Tique Wall Systems products, please contact a Tique Wall Systems Representative at (860) 761-2830 or visit our website www.TiqueWallSystems.com.