



Aquathon® Wall Coating

Product Data Sheet



PRODUCT DESCRIPTION

Aquathon® Wall Coating is a liquid-applied, advanced acrylic elastomer designed to waterproof exterior vertical surfaces. It possesses outstanding adhesion to a wide variety of substrates. **Aquathon® Wall Coating** is a flexible “breathing” membrane, allowing moisture vapor from the substrate or building interior to escape through the coating while remaining resistant to mass water penetration from the exterior.

Aquathon® Wall Coating cures in a two-stage mode. The exposed surface crosslinks under ultraviolet light, while the sub-surface of the coating is protected from further cross-linking and retains a permanent elastomeric bond to the substrate. This eliminates the need for a separate topcoat and allows the system to repel dirt, mildew and pollution without sacrificing flexibility. It contains no plasticizers, and will not harden or slump with age or changes in temperature.

PACKAGING & SHELF LIFE

1 gallon (3.8 liter) bucket
5 gallon (19 liter) pail

Shelf life 18 months if unopened containers stored between 40°F and 70°F (4°C - 21°C).

BASIC USES & ADVANTAGES

Aquathon® Wall Coating was specifically developed to waterproof vertical concrete and masonry building exteriors. It has the ability to uniformly cover the profile of textured substrates, forming a continuous membrane resistant to all forms of weather and airborne pollutants.

Aquathon® Wall Coating effectively covers existing hair-line cracks and repaired areas, and bridges hairline cracking caused by further building movement. It provides long term, aesthetically pleasing waterproofing on all types of concrete and masonry surfaces. **Aquathon® Wall Coating** is also effective over wood and hardboard substrates.

Advantages:

- **Single Component:** ready-to-use material requiring no catalyzation
- **No Solvents:** water-based elastomeric emulsion conforming to most VOC and air pollution standards
- **High Resin Content:** contains a higher ratio of acrylic resin to filler pigments than other coatings
- **Uniform High Film Build:** thixotropic consistency gives it excellent vertical hold, allowing full application in one or two coats
- **Elastomeric:** permanent and non-aging, **Aquathon® Wall Coating** moves with the building to bridge hairline cracks that may develop
- **Low Temperature Performance:** elongation properties are maintained at cooler temperatures, contributing to the ability to bridge hairline cracks and withstand freeze/thaw cycling
- **Abrasive Weather Conditions:** withstands all normal weather conditions

PHYSICAL PROPERTIES

AQUATHON®	
Solids by Weight	68% (±2) [ASTM D2369]
Solids by Volume	55% (±2) [ASTM D2697]
Tensile Strength	150 psi (1.0 kPa) (±25) @ 75°F 400 psi (2.8 kPa) (±25) @ 0°F [ASTM D412]
Elongation	300 (±50) @ 75°F [ASTM D412] 400 (±50) @ 0°F [ASTM D412]
Hardness	60–70 Shore A [ASTM D2240]
Permeance	7.7 perms at 15 mils (381 microns) [ASTM E96]

VOC	<50 g/L
Dry Time	1½ hours @ 20 wet mils (508 microns) (75°F, 50% R.H.) [ASTM D1640]
Temperature Limits for Service Conditions	-30°F to 200°F (-34°C to 93°C)
Colors	White and Custom Colors Available

APPLICATION INSTRUCTIONS

Surface Preparation: NEW OR UNPAINTED SURFACES: Bare concrete, brick, stucco or masonry must be structurally sound, clean, dry, fully cured, and free from dust, curing agents or form release agents, efflorescence, scale or other foreign materials. On new poured-in-place concrete, use a non-staining form release agent that is either easily removed or is designed to be compatible with surface coatings. **Aquathon® Wall Coating** may be applied directly to clean, sound surfaces of concrete, brick or stucco, as well as wood, siding and exterior wallboard. Concrete surfaces exhibiting high alkalinity should first be primed using Acrylex 400.

Prior to application over masonry block, a high quality acrylic block filler should be utilized to fill the pores and achieve a pinhole-free surface. Application of a block filler will maximize the effectiveness of the **Aquathon® Wall Coating**.

The amount of block filler required to uniformly fill or surface a masonry block or other porous substrate will depend upon the texture and porosity of the surface. The average application rate will be 2–2½ gallons per 100 ft² (.8 to 1.0 l/m²). For additional information, refer to specific block filler manufacturer’s application instructions.

PREVIOUSLY PAINTED SURFACES: All dust, dirt, efflorescence and loosely adhering paint or coating shall be removed. Paints which show failure due to alkalis and moisture, which is recognizable by flaking, peeling and white deposits, must be completely removed. Chalky or oxidized surfaces must be washed with United Cleaning Concentrate (UCC) or equal, and thoroughly power rinsed with clean, fresh water prior to application of **Aquathon®**. A sample application of **Aquathon® Wall Coating** should then be applied to test for adhesion.

Application: **Aquathon® Wall Coating** may be applied
continued on back

GAF Liquid-Applied

January 2016, supercedes March 2015

For technical, system, and warranty information, visit gaf.com or call 1-800-766-3411.



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PHYSICAL PROPERTIES

Accelerated Weathering – UV Resistance [ASTM D822]	After 2,000 hours of continuous exposure, AQUATHON showed no deleterious effects, no surface checking, cracking or delamination.
Resistance to Wind Driven Rain [Federal Spec TTC 555B]	During 40 hours of continuous testing, no apparent moisture penetrated the AQUATHON sample.
Resistance to Salt Spray [ASTM B117]	After 500 hours of continuous exposure, AQUATHON showed no deleterious effects, no surface checking, cracking or delamination.
Resistance to Mildew [ASTM G21]	After 14 days, all AQUATHON samples showed absolutely no fungus growth.
Low Temperature Flexibility [Federal Test Method # 141a-6221]	AQUATHON has the ability to withstand multiple 180° bends over a 1/8" mandrel at -30°F (-34°C).
Elongation After Aging [ASTM D822 & ASTM D412]	After 2,000 hours exposure, AQUATHON retained 95% of its elastomeric properties.
Low/High Temperature Stability [ASTM D822]	Films retained their ability to be flexed 180° without cracking at temperatures from -30°F to 200°F (-34°C to 94°C) with no age hardening or slump.

APPLICATION INSTRUCTIONS, CONT'D

by roller as well as conventional or airless spray equipment. A brush or pad may also be used for touch-up and edging work, or for small areas unsuitable for spray application. Airless spray and rolling are the most effective methods for obtaining uniform film build. Upon extended storage, the product will settle into a two-stage suspension. It is necessary to thoroughly mix all **Aquathon® Wall Coating** containers prior to application. Use a slow speed mixer capable of mixing the entire contents.

Aquathon® Wall Coating has a rich thixotropic consistency. The addition of water reduces this thixotropic nature and decreases the ability to achieve heavy film builds with good vertical hold. The material is easily pumped and sprayed without thinning, provided equipment is in good working condition, and coating is properly mixed and maintained at a minimum temperature of 60°F (16°C).

All surfaces should be sprayed with multi-directional spray passes to assure positive coverage. On applications requir-

ing two or more coats, subsequent coats shall be applied in a direction perpendicular to the previous coat after it has dried. All surfaces must be uniformly coated and free from voids, pinholes or blisters. The theoretical thickness given for coverage is based on smooth, non-porous surfaces. Actual gallons required to achieve the minimum dry film thickness will depend upon the surface texture, method of application and weather conditions. It is the responsibility of the Applicator to apply sufficient material to achieve the minimum dry thickness required. **Aquathon® Wall Coating** applied at the rate of one gallon per 100 ft² (.4 l/m²) will theoretical yield 8.8 dry mils (224 dry microns).

Apply in two coats at a minimum total rate of 1-1.5 gallons per 100 ft² (.4-.6 l/m²). Consult GAF's product specifications for specific film thickness requirements to qualify for GAF's product warranty.

LIMITATIONS & PRECAUTIONS

Aquathon® Wall Coating should generally not be used over cold storage tanks or buildings where a vapor barrier coating is required. **Aquathon® Wall Coating** shall not be used for interior applications in place of a thermal barrier. **Aquathon® Wall Coating** will freeze and become unusable at temperatures below 32°F (0°C). Do not ship or store unless protection from freezing is available.

Aquathon® Wall Coating requires complete evaporation of water to cure. Cool temperatures and high humidity retard cure. Do not apply if weather conditions will not

permit complete cure before rain, dew or freezing temperatures occur. Do not apply in the late afternoon if heavy moisture condensation can appear during the night.

Aquathon® Wall Coating shall not be applied when one or more of the following conditions exist: If ambient and/or surface temperatures are below 45°F (7°C), if relative humidity is in excess of 95%, there is a threat of rain or freezing temperatures within 4 hours of application, or the dew point is less than 5°F (3°C) above the surface temperature.

SAFETY & HANDLING

For specific information regarding safe handling of this material please refer to OSHA guidelines and product Safety Data Sheet (SDS).

CLEAN UP

Use water and UCC or equal to thoroughly flush equipment. Purge the water from the system using Mineral Spirits or Cellosolve solvent. Leave the solvent in the lines and equipment until next use.

GAF

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gaf.com

See applicable warranties and guarantees for complete coverage and restrictions.