

AQUATHON® 150

EXTERIOR ELASTOMERIC WALL WATERPROOFING

Technical Data & Application Instructions

PRODUCT DESCRIPTION

AQUATHON 150 is a fluid-applied, 100% acrylic elastomer system designed to waterproof exterior vertical surfaces. It combines a highly adhesive basecoat with a UV resistant topcoat to provide protection over a variety of substrates. AQUATHON 150 is a permanently flexible “breathing” membrane, allowing moisture vapor from the substrate or building interior to escape through the coating while remaining impervious to mass water penetration from the exterior.

AQUATHON 150 cures in a two-stage mode. The exposed surface cross-links 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 allows the system to repel dirt, mildew and pollution without sacrificing flexibility. It will not harden or slump with age or changes in temperature.

BASIC USES

AQUATHON 150 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 150 effectively covers existing hairline 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, masonry and stucco surfaces. AQUATHON 150 is also effective over wood and hardboard substrates.

COLORS

AQUATHON 150 is available in a variety of standard natural toned colors. All other colors are custom matched for the specific application. UNITED has the color tinting facilities to match virtually any color. Color chips or samples must be furnished to UNITED for all custom colors

TYPICAL PROPERTIES

1. **Solids by Weight:** 66% (±2) (Base & Top) [ASTM D1644]
2. **Solids By Volume:** 50% (±2) (Base & Top) [ASTM D2697]
3. **Weight per Gallon:** 12.4 lbs. (5.6 kg) [ASTM D1474]
4. **Density:** 1.5 g/ml [ASTM D1475]
5. **Tensile Strength:** 325 psi (±20) (1.66 MPa) [ASTM D2370]
6. **Elongation:** 150% (±20) @ 75°F (24°C) [ASTM D2370]
7. **Hardness:** 80 to 85 Shore A [ASTM D2240]
8. **Low Temperature Flexibility:** Passes 180° flex over 1/8" (3 mm) mandrel @ -6°F (-23°C) [Federal Test Method No. 141 a-6221]
9. **Temp. Limits for Normal Service Conditions:** 0°F to 180°F (-18°C to 82°C)

ADVANTAGES

- **Single Component:** AQUATHON 150 components are ready-to-use materials requiring no catalyzation. There are no pot life problems.
- **No Solvents:** AQUATHON 150 is a water-based elastomeric emulsion conforming to all VOC and air pollution standards.
- **High Resin Content:** AQUATHON 150 contains a high ratio of acrylic resin to fillers.
- **Uniform High Film Build:** AQUATHON 150's thixotropic consistency gives it excellent vertical hold, allowing full application in two coats.
- **Self Cleaning:** AQUATHON 150 seals and protects, releasing dirt, dust and pollution from its tight surface skin.
- **High Elongation:** AQUATHON 150 moves with the building to bridge hairline cracks that may develop.
- **Low Temperature Stability:** AQUATHON 150 exhibits good elongation properties at cooler temperatures, contributing to its ability to bridge hairline cracks. It also withstands freeze/thaw cycling.
- **Weather Resistance:** AQUATHON 150 will withstand all normal weather conditions.

SURFACE PREPARATION

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 150** 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 **UNITED'S Primer 708**.

All dust, dirt, efflorescence and loosely adhering paint or coating shall be 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 150**. A sample application of **AQUATHON 150 Basecoat** should then be applied to test for adhesion. If test indicates poor or marginal adhesion, surfaces shall be primed with **UNITED'S Uniseal** at 300 to 400 sq. ft. per gallon (7.3 to 9.8 m²/l). Any existing painted surfaces that are not tightly adhered must be removed by sandblasting, water blasting or other mechanical means.

All delaminated and/or spalled areas in the concrete shall be repaired prior to application of **AQUATHON 150 Basecoat**. Remove all unsound concrete as required. Fill cavities using **UNITED'S Uni-Crete** or other quality polymer-modified cement mix. Finished surface of patches shall be flush with and shall match texture of existing surface. For major repairs involving deterioration greater than 2" (5 cm) in depth, and/or severe corrosion of the reinforcement, consult a structural engineer for repair procedure.

All cracks larger than hairline shall be considered as "moving", and shall be routed and sealed. Remove all failed caulking material previously applied over cracks and clean thoroughly. Remove any existing paint as required to provide a clean, sound concrete surface prior to repairing cracks. Fill the full length and depth of the joint with a high quality acrylic or single package urethane sealant. Tool the sealant to ensure bonding, consolidation and uniform appearance. The sealant must be completely cured prior to application of **AQUATHON 150**.

Prior to application over masonry block, **UNITED'S Block Filler 704** or other approved 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 150**. The average application rate for **Block Filler 704**, or other high quality acrylic block filler will be 2 to 2½ gallons per 100 sq. ft. (.8 to 1.0 m²/l).



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APPLICATION

Airless spray and roller are the most effective methods for application of **AQUATHON 150** components, although a brush or pad may also be used for touch-up and edging work, or for small areas. While **AQUATHON 150** has excellent vertical hold, it is virtually impossible to apply more than ½ gallon per 100 sq. ft. (.2 l/m²) per coat unless utilizing airless or conventional spray equipment. Additional coats **must** be factored in to achieve the required dry film thickness when utilizing roller or brush application.

AQUATHON 150 Basecoat and **Topcoat** are single component materials available in 5-gallon (19 liter) pails and 55-gallon (208 liter) drums. Use a slow speed mixer capable of mixing the entire contents of all containers prior to use. Thinning or reducing the materials is not recommended.

AQUATHON 150 Basecoat can be used for up to ½ of the overall coating thickness, and must always be used in combination with **AQUATHON 150 Topcoat**. **AQUATHON 150 Topcoat** can be used on it's own to achieve the desired total coating thickness requirement. Always apply subsequent coats 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.

AQUATHON 150 applied at the rate of one gallon per 100 sq. ft. (.4 l/m²) will theoretical yield 8.0 dry mils (203 dry microns). For issuance of a 5-year waterproofing warranty, **UNITED** requires a minimum of two coats of **AQUATHON 150** applied at a minimum dry film thickness of 10 mils (254 microns) at any location. It is the responsibility of the applicator to ensure that adequate material is applied to achieve the minimum required coating thickness.

Exercise caution when applying **AQUATHON 150** in dark colors under high heat conditions. Surfaces exposed to direct sunlight should be coated with thin passes, and during the morning or late afternoon hours. Application of dark colors under direct sunlight can cause blistering and a cellular structure within the cured film.

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.

LIMITATIONS & PRECAUTIONS

AQUATHON 150 should not be used over cold storage structures where a vapor barrier coating is required, or for interior applications in place of a thermal barrier. The components will freeze and become unusable at temperatures below 32°F (0°C). Do not ship or store without protection from freezing.

AQUATHON 150 requires complete evaporation of water to cure. Do not apply if weather conditions will not permit cure before rain, dew or freezing temperatures occur, or in the late afternoon if heavy moisture condensation can appear during the night. Do not apply at temperatures below 45°F (7°C), or when there is a possibility of temperatures falling below 32°F (0°C) within a 4 hour period after application.

For additional information, refer to OSHA guidelines and **AQUATHON 150** Material Safety Data Sheet.