

# **INFORMATION HANDOUT**

**For Contract No. 05-0J4904**

**At 05-Mon,SBt,SLO,SB,SCr-1, 17, 68, 101, 135, 217-VAR**

**Identified by**

**Project ID 0514000120**

## **MATERIALS INFORMATION**

Product Information-Aquathon

## AQUATHON SUPPLIERS:

10-06-15

Service Partners has 6 branches across California. The product can be purchased through any of these branches. Because of the special color, it would be about a 7 day lead time to get material into the local branch.

### **Service Partners**

8321 Demetre Avenue  
Sacramento, CA 95828  
916.388.2631

Mgr: John Garland

[jgarland@service-partners.com](mailto:jgarland@service-partners.com)<mailto:jgarland@service-partners.com>

[jthomas@service-partners.com](mailto:jthomas@service-partners.com)<mailto:jthomas@service-partners.com>

### **Service Partners**

120 Mata Way, Suite 101  
San Marcos, CA 92069  
760.736.4809

Mgr: Jeremy Thomas

### **Service Partners**

8628 Thornton Avenue  
Newark, CA 94560  
510.797.6700

Mgr: John Garland

[jgarland@service-partners.com](mailto:jgarland@service-partners.com)<mailto:jgarland@service-partners.com>

[ktate@service-partners.com](mailto:ktate@service-partners.com)<mailto:ktate@service-partners.com>

### **Service Partners**

1819 S. Business Parkway  
Ontario, CA 91761  
909.947.0319

Mgr: Ken Tate

### **Service Partners**

2898 S. Orange Avenue  
Fresno, CA 93275  
559.264.2618

Alex Picazo

[apicazo@service-partners.com](mailto:apicazo@service-partners.com)<mailto:apicazo@service-partners.com>

### **Rain Gutter Supply**

1040 Kraemer Place  
Anaheim, CA 92806  
714.780.0555

Mgr: Gerald Clarkson

[gclarkson@service-partners.com](mailto:gclarkson@service-partners.com)<mailto:gclarkson@service-partners.com>

Thank You,

John De Vito

NorCal Technical/Sales Rep

GAF-Liquids

Martinez, CA

925.408.4404 (M)

[jdevito@gaf.com](mailto:jdevito@gaf.com)<mailto:jdevito@gaf.com>

[www.gaf.com](http://www.gaf.com)<http://www.gaf.com>



## BASIC USES & ADVANTAGES

**Aquathon®** 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®** 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 and masonry surfaces. **Aquathon®** is also effective over wood and hardboard substrates.

### Advantages:

- **Single Component:** ready-to-use material requiring no catalyzation; no pot life problems
- **No Solvents:** water-based elastomeric emulsion conforming to all 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®** 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

## PRODUCT DESCRIPTION

**Aquathon®** is a fluid-applied, advanced acrylic elastomer designed to waterproof exterior vertical surfaces. It possesses outstanding adhesion to a wide variety of substrates.

**Aquathon®** 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®** cures in a two-stage mode. The exposed surface crosslinks under ultraviolet light, while the sub-surface of the coating is protected from further crosslinking 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

5 gallon (19 liter) bucket  
55 gallon (208 liter) bucket

Shelf life 18 months if unopened containers stored between 40°F and 70°F.

## 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]

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	Available in 4 tintable bases, which can be tinted to a wide range of colors. All colors are custom matched for the specific application; color chips or samples must be furnished.

## 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®** 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 or 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®** topcoat.

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®**. UCC should be diluted at a 10:1 ratio with water. The diluted cleaning solution is then applied to the substrate at 150-200 ft² per gallon and allowed to stand for a minimum

## PHYSICAL PROPERTIES

<b>Accelerated Weathering – UV Resistance</b> [ASTM D822]	After 2,000 hours of continuous exposure, AQUATHON showed no deleterious effects, no surface checking, cracking or delamination.
<b>Resistance to Wind Driven Rain</b> [Federal Spec TTC 555B]	During 40 hours of continuous testing, no apparent moisture penetrated the AQUATHON sample.
<b>Resistance to Salt Spray</b> [ASTM B117]	After 500 hours of continuous exposure, AQUATHON showed no deleterious effects, no surface checking, cracking or delamination.
<b>Resistance to Mildew</b> [ASTM G21]	After 14 days, all AQUATHON samples showed absolutely no fungus growth.
<b>Low Temperature Flexibility</b> [Federal Test Method # 141a-6221]	AQUATHON has the ability to withstand multiple 180° bends over a 1/8" mandrel at -30°F (-34°C).
<b>Elongation After Aging</b> [ASTM D822 & ASTM D412]	After 2,000 hours exposure, AQUATHON retained 95% of its elastomeric properties.
<b>Low/High Temperature Stability</b> [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

of 15 minutes. The cleaning solution is then rinsed from the surface with water under high pressure utilizing either airless spray or pressure washing equipment. A sample application of **Aquathon®** should then be applied to test for adhesion. If test indicates poor or marginal adhesion, surfaces shall be primed with UNITED's Primer 708 at 300–400 ft<sup>2</sup> per gallon (7.3 to 9.7 m<sup>2</sup>/l). Any existing painted surfaces that are not tightly adhered must be removed by sandblasting, water blasting or other mechanical means.

**Application:** **Aquathon®** may be applied 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®** containers prior to application. Use a slow speed mixer capable of mixing the entire contents.

**Aquathon®** 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 requiring 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®** applied at the rate of one gallon per 100 ft<sup>2</sup> (.4 l/m<sup>2</sup>) will theoretical yield 8.8 dry mills (224 dry microns). The following estimated coverage rates can be used as a guide in figuring material requirements for 5 and 10 year warranties:

SUBSTRATE	COVERAGE RATE 5 YR WARRANTY	COVERAGE RATE 10 YR WARRANTY
Smooth Concrete	1.5 gallons per 100 ft <sup>2</sup> (0.6 l/m <sup>2</sup> )	2.25 gallons per 100 ft <sup>2</sup> (0.9 l/m <sup>2</sup> )
Concrete Block, Brick	2 gallons per 100 ft <sup>2</sup> (0.8 l/m <sup>2</sup> )	2.75 gallons per 100 ft <sup>2</sup> (1.1 l/m <sup>2</sup> )
Lightweight Pumice Block	2.5 gallons per 100 ft <sup>2</sup> (1.0 l/m <sup>2</sup> )	3.25 gallons per 100 ft <sup>2</sup> (1.3 l/m <sup>2</sup> )
Split Face, Stucco, or Coarse Textured Surfaces	3 gallons per 100 ft <sup>2</sup> (1.2 l/m <sup>2</sup> )	3.75 gallons per 100 ft <sup>2</sup> (1.5 l/m <sup>2</sup> )

## LIMITATIONS & PRECAUTIONS

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

**Aquathon®** 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®** 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%, threat of rain or freezing temperatures within 4 hours of application, the dew point is less than

## SAFETY & HANDLING

For specific information regarding safe handling of this material please refer to OSHA guidelines and **Aquathon®** Material Safety Data Sheet (MSDS).

## 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.

## Quest Construction Products

1465 Pipefitter Street  
N Charleston, SC 29405  
855-817-3082  
www.quest-cp.com

Our products are guaranteed to meet established quality control standards, information contained in our technical data is based on laboratory and field testing, but is subject to change without prior notice. No guarantee of accuracy are given or implied, nor does Quest Construction Products assume any responsibility for coverage, performance on injuries resulting from storage, handling or use of our products. Liability, if any, is limited to product replacement or, if applicable, to the terms stated within the executed project warranty.



# AQUATHON

## MASTER GUIDE SPECIFICATION

### SECTION 07120

## ***Advanced Acrylic Exterior Elastomeric Wall Waterproofing***

### **PART 1 - GENERAL**

#### **1.01 RELATED WORK SPECIFIED ELSEWHERE**

- A. Cast-In-Place Concrete: Section 03300
- B. Precast Concrete: Section 03400
- C. Brick Masonry: Section 04210
- D. Concrete Unit Masonry: Section 04220
- E. Masonry Restoration & Cleaning: Section 04500
- F. Membrane Waterproofing: Section 07110
- G. Sealants: Section 07900
- H. Cement Plaster (Stucco): Section 09180
- I. Special Coatings: Section 09800
- J. Painting: Section 09900

#### **1.02 QUALITY ASSURANCE.**

- A. Qualifications of Applicator: Fluid-applied waterproofing shall be applied by a Manufacturer-certified Applicator with basic knowledge of the material and application procedures.
- B. Requirements of Regulatory Agencies: Formulation of the fluid-applied waterproofing shall conform to all local, State and Federal air quality control standards.
- C. Jobsite Mock-Up: After initial samples have been approved, apply primer (as required), block filler (as required) and one or two separate coats (per project requirements) of fluid-applied waterproofing to one side of the mock-up, located on the jobsite. Waterproofing coverage rates shall be as hereinafter specified, unless otherwise recommended by the Manufacturer in writing, to effectively waterproof the surface.
  - 1. Approval by the Architect shall serve as a standard of comparison with respect to color and overall appearance.
  - 2. General application to actual surfaces on the building shall not proceed until jobsite mock-up has been approved in writing by the Architect.

*Delete paragraph C for projects not requiring jobsite mock-up.*

#### **1.03 SUBMITTALS**

- A. Submit Manufacturer's literature, approved Contractor certificate, and samples to the Architect in accordance with requirements specified in General Conditions and Division 1, General Requirements.
- B. Manufacturer's Literature: Manufacturer's literature shall be submitted for review before work is started. Literature shall show material specifications, physical properties (including ASTM test methods utilized), Manufacturer's estimated application rate for each surface to which the waterproofing is to be applied, current application instructions of the Manufacturer, and Material Safety Data Sheets.

- C. Samples: After the initial color selection has been approved, submit two (2) full size concrete masonry units identical to those being used in the work, with block filler and fluid-applied waterproofing applied over entire surface (face side) in two (2) separate applications. The untreated concrete masonry units shall be furnished by the General Contractor. Fluid-applied waterproofing shall be of the type and color that will be used on the actual building. Samples shall be resubmitted as required until approved by the Architect. Approval by the Architect shall serve as a standard of comparison with respect to color and overall appearance.

*Modify above paragraph to meet project requirements with regard to substrate, primer and block filler.  
If fluid-applied waterproofing is to be applied over precast concrete, samples shall be a minimum of 12 inches by 12 inches in size.*

#### **1.04 PRODUCT DELIVERY, STORAGE AND HANDLING**

- A. Type of material, batch number, and date of manufacture shall be clearly stated on the labels of each container.
- B. Store materials in an area where temperatures will not be less than 50°F (10°C) or more than 100°F (38°C) and in accordance with OSHA requirements.

#### **1.05 JOB CONDITIONS**

- A. Temperatures and relative humidity conditions during time of application shall be per Manufacturer's application instructions. Do not apply material under rainy conditions or within three (3) days after surfaces become wet from rainfall or other moisture. Do not apply when weather is foggy or overcast.
- B. Take precautions to ensure that workmen and work areas are adequately protected from any health hazards resulting from handling, mixing and application of material.
- C. Furnish all scaffolding and the necessary equipment to complete the work. Scaffolding shall comply with all State, Federal and local requirements as to safety.
- D. Provide drop cloths and other forms of protection necessary to protect all adjoining work and surfaces to render them completely free of overspray and splashes. Any surfaces that have been damaged or splattered shall be cleaned, restored, or replaced to the satisfaction of the Architect.

## **PART 2 - PRODUCTS**

### **2.01 DESCRIPTION**

A seamless, fluid-applied acrylic membrane waterproofing system designed for application over concrete, masonry, stucco and other appropriate building exteriors. Approved system shall be UNITED COATINGS' **AQUATHON** Exterior Elastomeric Wall Waterproofing consisting of **AQUATHON** advanced acrylic single-component elastomeric coating, **ACRYLEX 400 PRIMER**, **UNITED CLEANING CONCENTRATE (UCC)** and a quality block filler (as necessary).

### **2.02 MATERIALS**

- A. Biodegradable Cleaner: **UNITED CLEANING CONCENTRATE (UCC)**, water-reducible non-phosphate cleaner as supplied by Coating Manufacturer for use in cleaning wall surfaces prior to coating.
- B. Block Filler: As necessary and/or specified, use a high quality, water-based, sprayable latex filler as supplied by the Certified Applicator for use in filling and sealing porous or textured substrates prior to coating.
- C. Fluid-Applied Waterproofing Membrane: **AQUATHON**, advanced acrylic coating as supplied by the Coatings Manufacturer to provide an elastomeric waterproof membrane over the substrate.
1. Solids by weight shall be a minimum of 68% [ASTM D2369]
  2. Solids by volume shall be a minimum of 55% [ASTM D2697]
  3. Dry time: 1½ hours at 20 wet mils, 75°F, 50% R.H. [ASTM D1640]
  4. Tensile strength: Minimum of 150 psi (±25) @ 75°F [ASTM D412]. Minimum of 400 psi (±25) @ 0°F [ASTM D412]
  5. Elongation: Minimum of 300% (±50) @ 75°F [ASTM D412]. Minimum of 400% (±50) @ 0°F [ASTM D412]
  6. Hardness: Minimum of 60 to 70 Shore A [ASTM D2240]
  7. Permeance: 7.7 perms at 15 mils [ASTM E96]
  8. Flexibility: 180° flex over 1/8" mandrel @ -30°F [Federal Test method #141a-6221]
  9. Temperature limits for service conditions: -30°F to 200°F (-34°C to 93°C)
  10. Materials shall meet performance requirements as specified in paragraph 2.04

### 2.03 COLORS

Color of the fluid-applied elastomeric waterproofing shall be \_\_\_\_\_, as selected by the Architect or Owner from Coating Manufacturer's standard colors.

*Use above paragraph for standard colors*

Color of the fluid-applied elastomeric waterproofing shall be a custom color as selected by the Architect or Owner. Color shall match color chip(s): \_\_\_\_\_.

*Use above paragraph for custom colors*

### 2.04 PERFORMANCE REQUIREMENTS

- A. Resistance to Accelerated Weathering: Treated specimen shall show no deleterious effects, no surface checking, cracking or delamination after 3,000 hours of testing in accordance with ASTM G23 in a QUV weathering cabinet.
- B. Resistance to Natural Sunlight: Test panels shall show no deleterious effects, no surface checking, cracking or delamination after 1 year exposure to concentrated natural sunlight as per ASTM G90.
- C. Resistance to Wind Driven Rain: After 40 hours of continuous testing, treated specimen shall show no apparent moisture penetration through the membrane. Test conducted in a pressurized test chamber producing 5" (12.7 cm) of water pressure, equivalent to 100 mph wind pressure (161 km/hr) as per Federal Specification RRC-555B.
- D. Resistance to Salt Spray: Treated sample shall show no deleterious effects, no surface checking, cracking or delamination following 500 hours of continuous exposure. Testing shall be in accordance with ASTM B117 in a Harshaw Salt Spray Cabinet. Test specimens shall be treated cement asbestos board or equal.
- E. Resistance to Mildew. After 14 days dry samples shall exhibit no fungus growth when tested in accordance with ASTM G21.
- F. Film Breathing Ability: At 15 dry mils coating shall have a perm rating of 7.7 perms, allowing moisture vapor within the building to pass through the coating while preventing penetration of mass water from the exterior.

## **PART 3 - EXECUTION**

### 3.01 PREPARATION OF SURFACES

- A. All delaminated and/or spalled areas in the concrete, masonry or stucco shall be repaired prior to application of the primer, block filler or elastomeric membrane. Locations of delaminated concrete shall be determined in the field by tapping the concrete with a sounding rod or hammer.
- B. Bare concrete, brick, stucco or masonry shall be structurally sound, clean, dry, fully cured, and free from dust, efflorescence, curing agents or form release agents, scale or other foreign materials.
- C. On new precast or poured-in-place concrete, use a non-staining form release agent that is either easily removed or designed to be compatible with surface coatings.
- D. All cracks larger than hairline shall be considered as "moving" and shall be routed and caulked. Mark all cracks with chalk to provide visibility of the crack during routing. Rout out full length of crack to form a ¼" wide by ¼" deep (6 mm x 6 mm) joint centered on the crack. Thoroughly blow out the joint with compressed air or flush the joint with clean water to remove all grinding dust. Routed surface must be clean, sound and square.
- E. Remove all failed caulking material previously applied over cracks and clean thoroughly.
- F. Apply bondbreaker along entire length at the bottom of all routed joints, taking care to avoid applying bondbreaker to the sides of the joint. Fill the full length and depth of the joint with a high quality acrylic or urethane sealant. Tool the sealant as recommended by the Manufacturer to ensure bonding, consolidation and uniform appearance. The sealant must be completely cured prior to application of the block filler, primer or elastomeric membrane.
- G. On previously painted surfaces, all loosely adhering paint or coating shall be completely removed by scraping, pressure washing, blasting or other mechanical means. Paints that show failure due to alkalis and moisture, which is recognizable by flaking, peeling and white deposits, must be completely removed.
- H. Chalky, oxidized or other contaminated surfaces must be washed with **UNITED CLEANING CONCENTRATE (UCC)** or equal biodegradable cleaner. Apply UCC under low pressure, allow to sit for a minimum of 15 minutes, and thoroughly rinse from the surface with fresh water under high pressure using either airless spray or pressure washing equipment.
- I. Apply a sample application of **AQUATHON** to test for adhesion. If test indicates poor or marginal adhesion, surfaces shall be primed with **Acrylex 400** at the rate of 300 to 400 sq. ft. per gallon (7.3 to 9.7 m<sup>2</sup>/l), to lock down residual chalkiness.

- J. Prior to application over masonry block or other porous and/or highly textured surfaces, approved acrylic block filler must be utilized to fill the pores and achieve a pinhole-free surface. The amount of block filler required to uniformly fill or surface a given substrate will depend upon the texture and porosity of the surface. Block filler should be applied at a rate sufficient to fill the porosity of the substrate. Typical application rate will be 2 to 2½ gallons per 100 sq. ft. (.8 to 1.0 l/m<sup>2</sup>). If spray applied, the block filler shall be back-rolled into the surface.

### 3.02 ELASTOMERIC COATING APPLICATION

- A. All containers shall be thoroughly mixed prior to application in accordance with the Manufacturer's directions using a power mixer capable of mixing the entire container. **Do not thin the material.**
- B. **AQUATHON** may be applied by roller as well as conventional or airless spray equipment. Airless spray and roller are the most effective methods for obtaining uniform film build.
- C. All surfaces must be coated with multi-directional passes to assure positive coverage. Apply subsequent coats in a direction perpendicular to the previous coat after it has dried.
- D. The entire wall surface shall receive **AQUATHON** advanced acrylic elastomer coating applied as follows:  
For issuance of a 5-Year Waterproofing Warranty, one or two coats of fluid-applied waterproofing shall be applied at a nominal thickness of 13 dry mils (330 microns) with a minimum thickness of 10 dry mils (254 microns) at any location.

*or*

For issuance of a 10-year waterproofing warranty, two or three separate coats of fluid-applied waterproofing shall be applied at a nominal thickness of 19 dry mils (483 microns) with a minimum thickness of 15 dry mils (381 microns) at any location.

*Use either paragraph 1 or 2 to meet project requirements.*

The following estimated coverage rates should be used as a guide in figuring fluid-applied waterproofing material requirements for the appropriate 5 or 10 year warranty:

<u>Substrate</u>	<u>Gallons/100 sq. ft. 5-Year Warranty</u>	<u>Gallons/100 sq. ft. 10-Year Warranty</u>
Concrete (smooth)	1.75 (.7 l/m <sup>2</sup> ) in 1 or 2 coats	2.6 (1.4 l/m <sup>2</sup> ) in 2 coats
Concrete Block, Brick	2.4 (1.0 l/m <sup>2</sup> ) in 2 coats	3.2 (1.3 l/m <sup>2</sup> ) in 2 coats
Lightweight Pumice Block	3.0 (1.2 l/m <sup>2</sup> ) in 2 coats	3.8 (1.5 l/m <sup>2</sup> ) in 2 or 3 coats
Split Face, Stucco or Coarse Textured Surfaces	3.5 (1.4 l/m <sup>2</sup> ) in 2 or 3 coats	4.4 (1.8 l/m <sup>2</sup> ) in 3 coats

*Choose appropriate recommended coverage rate as per substrate and warranty requirements.  
Allow 15 to 30% more material for structures with grooved design or recessed mortar joints.*

- E. The applicator must periodically check the number of gallons (liters) used and compare to square feet (meters) coated. If adequate material has not been used, adjust and apply additional material to previously coated areas.
- F. When applying dark colors under high heat conditions, avoid application in direct sunlight. Apply **AQUATHON** in thin passes in the morning or late afternoon.
- G. **AQUATHON** shall not be applied; if ambient and/or surface temperatures are below 45°F (7°C); if the relative humidity is in excess of 95%; if there is a threat of rain or freezing temperatures within 4 hours of application; or if the dew point is less than 5°F (3°C) above the surface temperature.

### 3.04 CLEANUP

- A. Maintain work and work areas in a clean, safe condition at all times during coating installation. Remove excess materials, trash and debris from the jobsite daily.
- B. At the completion of the project, clean area of any spills and containers, and clean up all debris, leaving jobsite in a clean and orderly condition.

### 3.05 WARRANTY

- A. Upon completion of the coating system, the Coating Manufacturer's Representative, Owner's Representative, Architect and Applicator shall make a final inspection to determine the dry film thickness of the fluid-applied acrylic membrane and to verify that the system meets the Manufacturer's requirements for warranty. The Contractor shall notify all interested parties in advance of said inspection.
- B. As a condition of the project completion and acceptance, deliver to the Owner a copy of the fully executed Warranty from the Coating Manufacturer, as per project specifications.



2810 S. 18th Place • Phoenix, AZ 85034  
1-480-754-8900 1-800-541-4383  
www.questconstructionproducts.com



1465 Pipefitter Street  
 N. Charleston, SC 29405  
 Phone: 855-817-3082  
 Fax: 843-745-9602  
 www.quest-cp.com

**AQUATHON  
 FIVE (5) - YEAR  
 LIMITED PRODUCT WARRANTY**

**Name of Property:** XYZ Packaging Company  
**Owner:** A-Z Properties  
**Location:** 123 Main Street  
 Charleston SC 29555  
**Square Footage:** 1000  
**Date of Completion:** January 33, 2008  
**Contractor:** ZYXW Roofing & Waterproofing  
 5555 Meeting Street Suite 12345  
 Charleston SC 29555  
 855-817-3082

**Warranty #: 14SAMPLE**

- A. Quest Construction Products, LLC ("QCP") warrants to the Building Owner that, for a period of 5-years from date of completion, AQUATHON will not leak water due to deterioration as a result of ordinary weathering. If the coating leaks as a result of ordinary weathering, QCP will supply at no charge sufficient AQUATHON System Components needed to repair said leaks. This Warranty is expressly conditioned upon the Coating Applicator's obligation to apply the coating material in strict accordance with QCP's current published instructions covering surface preparation, coating application and precautions.
- B. This Warranty is expressly conditioned upon:
  - 1. QCP's liability to the Building Owner for any defect, failure or deficiency that is covered by this Warranty shall be expressly conditioned upon the Building Owner's obligation to notify QCP in writing within ten (10) days of the date that defect or damage is discovered. QCP shall then have the right to immediately inspect the defect, and if not given this right, the Warranty shall be terminated.
  - 2. QCP shall not be responsible for repairs made by others who are not authorized to make such repairs.
- C. This warranty does not cover failure of the coating due to:
  - 1. Damage to the coating, property, building or contents caused by fire, settlement, faulty construction or design, defects in the substrate, movement, misuse of structure, or other failures of the structure.
  - 2. Damage to the coating due to natural causes, including but not limited to floods, lightening, hail, windstorms, cyclones, hurricanes, tornadoes, earthquakes or failures due to acts of God.
  - 3. Vandalism, penetration or damage caused by third parties or foreign objects or agents, including plant or animal life.
  - 4. Failure of the substrate or materials used in the repair of the substrate, including caulk and/or patching compounds.
- D. If Coating Application or Building Owner fails to make payment to QCP and/or its Distributor, this Warranty shall be void.
- E. This Warranty is for the benefit of the initial purchaser, and shall not be transferrable or assignable to any other persons, firms or corporations except with the proper express written consent signed by a duly authorized representative of QCP.
- F. QCP shall not be liable for any direct, indirect, consequential, incidental, special, or general damage of any kind from whatever cause which may arise as the result of deterioration of said coating, except to supply all QCP material in accordance with the Warranty.
- G. This is the sole warranty issued by QCP and is in lieu of all other warranties, expressed or implied, including warranties of merchantability or fitness for a particular use.
- H. This Warranty is effective upon receipt of fully executed copy at QCP, 1465 Pipefitter Street, N. Charleston, South Carolina 29405, including issue number, and execution by an authorized representative of QCP, the Approved Contractor and the Owner.

Quest Construction Products	Approved Contractor	Owner or Owner's Representative
_____	_____	_____
Authorized Signature	Authorized Signature	Authorized Signature
Catherine Cheek	_____	_____
Printed Name	Printed Name	Printed Name



\_\_\_\_\_

Date

Valid when copy of this Warranty, executed by all parties, is on file at QCP's Warranty Department, N. Charleston, South Carolina



1465 Pipefitter Street  
 N. Charleston, SC 29405  
 Phone: 855-817-3082  
 Fax: 843-745-9602  
 www.quest-cp.com

**AQUATHON  
 TEN (10) - YEAR  
 LIMITED PRODUCT WARRANTY**

**Name of Property:** XYZ Packaging Company  
**Owner:** A-Z Properties  
**Location:** 123 Main Street  
 Charleston SC 29555  
**Square Footage:** 1000  
**Date of Completion:** January 33, 2008  
**Contractor:** ZYXW Roofing & Waterproofing  
 5555 Meeting Street Suite 12345  
 Charleston SC 29555  
 855-817-3082

**Warranty #: 14SAMPLE**

- A. Quest Construction Products, LLC ("QCP") warrants to the Building Owner that, for a period of 10-years from date of completion, AQUATHON will not leak water due to deterioration as a result of ordinary weathering. If the coating leaks as a result of ordinary weathering, QCP will supply at no charge sufficient AQUATHON System Components needed to repair said leaks. This Warranty is expressly conditioned upon the Coating Applicator's obligation to apply the coating material in strict accordance with QCP's current published instructions covering surface preparation, coating application and precautions.
- B. This Warranty is expressly conditioned upon:
  1. QCP's liability to the Building Owner for any defect, failure or deficiency that is covered by this Warranty shall be expressly conditioned upon the Building Owner's obligation to notify QCP in writing within ten (10) days of the date that defect or damage is discovered. QCP shall then have the right to immediately inspect the defect, and if not given this right, the Warranty shall be terminated.
  2. QCP shall not be responsible for repairs made by others who are not authorized to make such repairs.
- C. This warranty does not cover failure of the coating due to:
  1. Damage to the coating, property, building or contents caused by fire, settlement, faulty construction or design, defects in the substrate, movement, misuse of structure, or other failures of the structure.
  2. Damage to the coating due to natural causes, including but not limited to floods, lightening, hail, windstorms, cyclones, hurricanes, tornadoes, earthquakes or failures due to acts of God.
  3. Vandalism, penetration or damage caused by third parties or foreign objects or agents, including plant or animal life.
  4. Failure of the substrate or materials used in the repair of the substrate, including caulk and/or patching compounds.
- D. If Coating Application or Building Owner fails to make payment to QCP and/or its Distributor, this Warranty shall be void.
- E. This Warranty is for the benefit of the initial purchaser, and shall not be transferrable or assignable to any other persons, firms or corporations except with the proper express written consent signed by a duly authorized representative of QCP.
- F. QCP shall not be liable for any direct, indirect, consequential, incidental, special, or general damage of any kind from whatever cause which may arise as the result of deterioration of said coating, except to supply all QCP material in accordance with the Warranty.
- G. This is the sole warranty issued by QCP and is in lieu of all other warranties, expressed or implied, including warranties of merchantability or fitness for a particular use.
- H. This Warranty is effective upon receipt of fully executed copy at QCP, 1465 Pipefitter Street, N. Charleston, South Carolina 29405, including issue number, and execution by an authorized representative of QCP, the Approved Contractor and the Owner.

Quest Construction Products	Approved Contractor	Owner or Owner's Representative
_____	_____	_____
Authorized Signature	Authorized Signature	Authorized Signature
Catherine Cheek	_____	_____
Printed Name	Printed Name	Printed Name



\_\_\_\_\_

Date

Valid when copy of this Warranty, executed by all parties, is on file at QCP's Warranty Department, N. Charleston, South Carolina

PRODUCT NAME: #AQUATHON 150 TOP COAT

PRODUCT CODE: AQ-TC-150-X-XX

~~~~ SECTION 1 ~~~~ MANUFACTURER IDENTIFICATION ~~~~

Manufacturer's Name : Quest Construction Products, LLC  
 Address : 1465 Pipefitter Street  
           : North Charleston, SC 29405  
           : INITIAL (FIRST CALL) CHEMTREC (800) 424-9300  
 INFORMATION PHONE : (800) 739-5566  
 TOLL FREE : BACKUP (800) 541-4383  
 DATE REVISED : MAY 2012

~~~~ SECTION 2 ~~~~ HAZARDOUS INGREDIENTS/SARA III INFORMATION ~~~~

| Reportable Components   | CAS Number | MM HG @ Temp   | Weight % |
|---|------------|----------------|----------|
| Calcium Carbonate   | 1317-65-3  | N/A N/A        | <50      |
| OSHA PEL TWA: 15mg/m3 (total dust), 5mg/m3 (respirable dust)  |            |                |          |
| ACGIH TLV TWA: 10mg/m3 (total dust for <1% silica)  |            |                |          |
| Calcium Carbonate Contains <0.3% Silica, quartz   |            |                |          |
| Silica, quartz (CAS# 14808-60-7)  |            |                |          |
| OSHA PEL TWA: 30mg/m3 / % silica+2 (total dust),  |            |                |          |
| 10mg/m3 / % silica+2 (respirable dust).   |            |                |          |
| ACGIH TLV TWA: 0.05mg/m3 (respirable dust).   |            |                |          |
| ~   |            |                |          |
| Titanium Dioxide  | 13463-67-7 | N/A N/A        | <10      |
| ACGIH TLV: 10mg/m3 Dust   |            |                |          |
| OSHA PEL: 15mg/m3 Total Dust  |            |                |          |
| OSHA PEL: 5mg/m3 Respirable Dust  |            |                |          |
| WHMIS: D2A- toxic material causing other toxic effects.   |            |                |          |
| Phthalate acid ester  | 68515-45-7 | <0.075 68F/20C | <5       |
| No OEL's established.   |            |                |          |
| ~   |            |                |          |
| * Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.  |            |                |          |
| # Indicates carcinogenic chemical.  |            |                |          |
| NOTE: If tinted may contain Carbon Black CAS#1333-86-4 AND/OR Crystalline Silica CAS#14808-60-7. If tinted DARK GRAY or BLACK consider these levels to be reportable. |            |                |          |

This MSDS may be used for other colors and container sizes of this product.

~~~~ SECTION 3 ~~~~ HAZARDS IDENTIFICATION ~~~~

**Emergency Overview:**

**Potential Health Effects:**

In outside spray, mixing and rolling applications situate workers upwind of operation & provide airflow in a downwind direction so as to carry fumes and residual spray away from workers. Local exhaust ventilation recommended if generating vapor, dust or mist. Turn off heating and/or air conditioning equipment to prevent contaminating building. If exhaust ventilation is not adequate, use MSHA or NIOSH approved respirator. Refer to OSHA standard 29 CFR 1910.94 for guidelines.

**Eyes:**

Contact with product or exposure to vapor may cause mild to moderate eye irritation.

**Skin:**

Contact causes moderate skin irritation. Causes drying of the skin.

**Ingestion:**

Ingestion could cause abdominal cramps, nausea and diarrhea.

**Inhalation:**

May cause irritation to respiratory tract.  
Product contains ingredient that may cause chronic lung damage.

---

~~~~ SECTION 4 ~~~~ FIRST AID MEASURES ~~~~

**Eyes:**

Immediately flush with copious amounts of water for at least 15 minutes. If redness, itching, or burning sensations persist consult a physician or ophthalmologist immediately.

**Skin:**

Immediately wash skin with a generous amount of soap and water. Remove contaminated clothing and shoes and wash before reuse. If irritation persists consult a physician.

**Ingestion:**

Not considered a potential route of exposure. If swallowed, give 2 glasses of water to drink. Never give anything by mouth to an unconscious person. Consult a physician immediately.

**Inhalation:**

Remove from source of exposure and into fresh air. If symptoms persist consult a physician immediately. If not breathing, give artificial respiration and call emergency medical services immediately.

**Note to Physician:**

None for this material.

---

~~~~ SECTION 5 ~~~~ FIRE FIGHTING MEASURES ~~~~

**Flammable Properties**

**Flash Point:** 440F/227C

**Lower Flammable Limits:** N/A

**Upper Flammable Limit:** N/A

**Auto Ignition Temperature:** Not available

**Extinguishing Media:**

Foam, CO<sub>2</sub>, dry chemical, water fog or spray, as appropriate for surrounding fire.

**Special Fire Fighting Procedures:**

Do not enter any enclosed or confined fire space without full protective equipment, including self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) to protect against the hazardous effects of combustion products and oxygen deficiency.

---

**~~~~ SECTION 6 ~~~~~ ACCIDENTAL RELEASE MEASURES ~~~~~**

---

**Small Spill:**

Always wear appropriate Personal Protective Equipment as you would if you were using this product. Dike and absorb with inert material such as sand and remove all liquid with the use of a vacuum system. If unable to remove as a liquid, then absorb with sand, saw dust or commercial absorbent, and scoop up and place in containers for proper disposal. Keep spills and cleaning runoff out of the municipal sewers and open bodies of water. Decontaminate all clothing and the spill area with a detergent and large amounts of water.

**Large Spill:**

Wear skin, eye & respiratory protection during clean-up. Evacuate area of all non-essential personnel. Ventilate spill area. Dike, and contain and/or absorb with inert material (sand, earth or other suitable material) to prevent entry into storm drains, sewers and other unauthorized treatment/drainage systems and natural waterways. Scoop up and place in approved containers for proper disposal. Cover with lid. If spill occurs near air inlets or inside, turn off heating or air-conditioning equipment to prevent contaminating building.

---

**~~~~ SECTION 7 ~~~~~ HANDLING AND STORAGE ~~~~~**

---

**Handling & Storage:**

Store in a cool, dry, well-ventilated area away from incompatible materials. Keep container tightly closed when not in use. Do not use pressure to empty container. Do not puncture, cut, grind, weld or drill on or near this container. Closed containers may explode if exposed to extreme heat. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

**Other Precautions:**

---

**~~~~ SECTION 8 ~~~~~ EXPOSURE CONTROLS/PERSONAL PROTECTION ~~~~~**

---

**Engineering Controls:****Respiratory Protection:**

Wear a NIOSH approved respirator appropriate for the vapor or mist concentration at the point of use. Appropriate respirators may be a full-face piece or a half mask air-purifying cartridge respirator equipped for organic vapors/mists, a self-contained breathing apparatus in the pressure demand mode, or a supplied-air respirator. Refer to OSHA standard 29 CFR 1910.134 for additional information.

**Skin Protection:**

Chemical resistant gloves determined to be impervious under the conditions of use.

**Eye Protection:**

Safety glasses with side-shields Eye protection worn must be compatible with respiratory protection system employed.

## ~~~~ SECTION 9 ~~~~~ PHYSICAL AND CHEMICAL PROPERTIES ~~~~~

Boiling Range: 235-278C  
Melting Point: N/A  
Specific Gravity(H<sub>2</sub>O=1): 1.4817  
Vapor Density(Air=1): Not determined.  
Vapor Pressure: Not determined.  
Evaporation Rate(N-Butyl Acetate=1) : Similar to water.  
Coating V.O.C.: 0.08 lb/gl                      Coating V.O.C.: 10 g/l  
Material V.O.C.: 0.04 lb/gl                    Material V.O.C.: 5 g/l  
Solubility in Water: Soluble  
Appearance: Moderately viscous pigmented liquid, various colors.

Odor: Ester  
pH: 8.0

## ~~~~ SECTION 10 ~~~~~ STABILITY &amp; REACTIVITY DATA ~~~~~

**Stability:**  
Stable

**Conditions To Avoid:**

Extremely hot or cold temperatures  
Avoid heat and open flame. Keep air tight and free of moisture.

**Incompatible Materials:**

Strong oxidizing agents

**Hazardous Decomposition Products**

Thermal decomposition may yield acrylic monomer, carbon monoxide and carbon dioxide. Unidentified organic compounds in fumes and smoke may be formed during combustion.

**Hazardous Polymerization:**

Not expected to occur

## ~~~~ SECTION 11 ~~~~~ TOXICOLOGICAL INFORMATION ~~~~~

\*Data is for individual components of preparation.

**Materials having a known chronic/acute effects on eyes:**

NO DATA

**Materials having a known dermal toxicity.**

Titanium Dioxide CAS#13463-67-7 Dermal LD50 (rabbit) >10 g/kg

Phthalate acid ester

LD50: (rabbit) >7.9g/kg  
practically non-toxic

**Materials having a known oral toxicity.**

TITANIUM DIOXIDE CAS#13463-67-7 Oral LD50 (rat) >25 g/kg  
Phthalate acid ester  
Oral LD50: (rat) >6,200mg/kg

**Materials having a known Inhalation hazard:**

TITANIUM DIOXIDE CAS#13463-67-7 LC50 (rat)>6.82 mg/l(4 hr)

**Identified Acute/ Short-term Effects:**

Headache, nausea, abdominal pain and irritation of the nose, throat and lungs. Skin and eye irritation.

**Identified Carcinogens/Longterm Effects:**

TITANIUM DIOXIDE HAS RECENTLY BEEN CLASSIFIED BY THE IARC AS A GROUP 2B CARCINOGEN "POSSIBLY CARCINOGENIC TO HUMANS.

**Identified Teratogens:**

Phthalate Acid ester:

Components of this product lowered fetal body weight when given to rats at 5g/kg on day 6-19 of pregnancy. In a more recent screening study, the obvious signs of developmental toxicity noted at 1000mg/kg body weight appeared only when maternal toxicity was evident.

**Identified Reproductive toxins :**

NO DATA.

**Identified Mutagens:**

NO DATA.

**~~~~ SECTION 12 ~~~~ ECOLOGICAL INFORMATION ~~~~****Ecotoxicological effects on plants and animals:**

Titanium Dioxide CAS#13463-67-7 96 Hr LC50 (Fathead minnows)>1,000 mg/l

**Chemical Fate :**

This product is not expected to be biodegradable. Avoid spillage into the environment.

**~~~~ SECTION 13 ~~~~ DISPOSAL CONSIDERATIONS ~~~~****Instructions:**

Whatever cannot be saved for reuse should be transferred to an appropriate and approved waste disposal facility. Consult appropriate national, state and local regulatory agencies to ascertain proper disposal procedures.

**~~~~ SECTION 14 ~~~~ TRANSPORT INFORMATION ~~~~****Shipping Information:**

DOT INFORMATION: 49 CFR 172.101

DOT DESCRIPTION: NON HAZARDOUS

**~~~~ SECTION 15 ~~~~ REGULATORY INFORMATION ~~~~**

(Not meant to be all inclusive-selected regulations represented)

**US Regulations:****Status Of Substances Lists:**

The Concentrations Shown In Section II Are Maximum Ceiling Levels (Weight %) to be used for calculations for regulations.

A reportable quantity is a quantity of a hazardous substance that triggers reporting requirements under the Comprehensive Environmental Response Compensation And Liability Act (CERCLA).

If a spill of a substance exceeds it's reportable quantity (RQ) in CFR 302.3, Table 40 302.4 Appendix A & 302.4 Appendix B, the release must be reported to The National Response Center At (800) 424-8802, The State Emergency Response Commission (SERC), And community emergency coordinators likely to be affected.

**Components present that could require reporting under the statute are:**

NONE KNOWN

Superfund Amendments And Reauthorization Act Of 1986 (SARA) Title III Requires emergency planning based on the Threshold Quantities (TPQ'S) and release reporting based on Reportable Quantities (RQ'S) In 40 CFR 355

Appendix A&B Extremely Hazardous Substances. The emergency planning and release requirements of 40 CFR 355 apply to any facility at which there is present any amount of any extremely hazardous substance(EHS) equal to or in excess of it's Threshold Planning Quantity(TPQ).

**Components present that could require reporting under the statute are:**  
NONE KNOWN

EPCRA 40 CFR 372(Section 313) Requires EPA and the States to annually collect data on releases of certain toxic materials from industrial facilities, and make the data available to the public in the Toxics Release Inventory(TRI). This information must be included in all MSDS'S that are copied and distributed or compiled for this material. Reporting Threshold: Standard: A facility must report if it manufactures (including imports) or processes 25,000 pounds or more or otherwise uses 10,000 pounds or more of a listed toxic chemical during the calendar year.

**Components present that could require reporting under the statute are:**

**See Section II**

The components of this product are listed or excluded from listing on the US Toxic Substance Control Act (TSCA) chemical substance inventory. Mixtures shall be assumed to present the same health hazards as do the components which comprise one percent (by weight or volume) or greater of the mixture, except that the mixture shall be assumed to present a carcinogenic hazard if it has a component in concentrations of 0.1 percent or greater. The remaining percentage of unspecified ingredients, if any, are not contained in above DeMinimis concentrations and/or are believed to be non-hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200), and may consist of pigments, fillers, defoamers, wetting agents, resins, dryers, anti-bacterial agents, water and/or solvents in varying concentrations.

**International Regulations:**

**Canadian WHMIS:**

This product is not listed in any division, class, or subdivision.

This Product Contains the following in recordable amounts:

Titanium Dioxide CAS#13463-67-7

WHMIS Classification: D2A

WHMIS Health Effects Criteria Met by this Chemical:

Very toxic material causing other toxic effects

**Canadian Environmental Protection Act (CEPA):**

All of the components of this product are exempt or listed on the DSL/NDSL. See Section II For Composition/Information on Ingredients.

**EINECS:**

All of the components of this product are listed in the EINECS inventory or are exempt from notification requirements.

**State Regulations:**

**California:**

California Proposition 65: The following Statement is made in order to comply with The California Safe Drinking Water and Toxic Enforcement Act of 1986

"WARNING:This product contains the chemical(s) appearing below known to the State of California to:

**A: Cause Cancer**

TITANIUM DIOXIDE (AIRBORNE, UNBOUND PARTICLES OF RESPIRABLE SIZE)

\*If tinted contains Carbon Black: CAS#1333-86-4 and may also contain trace amounts of Crystalline Silica: CAS#14808-60-7

**B: Cause Birth Defects or other Reproductive Harm :**

NONE KNOWN

In addition to the above named chemical(s) (if any), this product may contain trace amounts of chemicals, known to the State of California, to cause Cancer or Birth Defects and other Reproductive Harm

**Delaware:**

NONE KNOWN

**Florida:**

NONE KNOWN

**Idaho:**

NONE KNOWN

**Massachusetts:**

CALCIUM CARBONATE, CAS#1317-65-3

SUBSTANCE CODES:4

Titanium Dioxide CAS#13463-67-7 SUBSTANCE CODES:4

**Michigan:**

NONE KNOWN

**Minnesota:**

THE FOLLOWING ARE LISTED IN THE MINNESOTA HAZARDOUS SUBSTANCES LIST

| CHEMICAL NAME     | CAS#      | CODES | HAZARDS | CARCINOGEN? |
|-------------------|-----------|-------|---------|-------------|
| CALCIUM CARBONATE | 1317-65-3 | A     | --      | NO          |

Titanium Dioxide CAS#13463-67-7

Listed In The Minnesota Hazardous Substances List:

Codes:            A  
 Hazards:         --  
 Carcinogen?     IARC GROUP 2B

**New Jersey:**

NONE KNOWN

**New York:**

NONE KNOWN

**Pennsylvania:**

CALCIUM CARBONATE                    CAS#1317-65-3            CODE:E

Titanium Dioxide                      CAS#13463-67-7        CODE:--

**Washington:**

WASHINGTON AIR CONTAMINANT:

| CALCIUM CARBONATE (RESPIRABLE) | CAS#1317-65-3 |                |
|--------------------------------|---------------|----------------|
| WA                             | ppm           | mg/Cubic Meter |
| TWA                            | UNK           | 5              |
| STEL                           | UNK           | UNK            |
| CEILING                        | UNK           | UNK            |
| SKIN:UNK                       |               |                |

Titanium Dioxide (Total Dust)        CAS#13463-67-7  
 Washington Air Contaminant:        ppm                      mg/Cubic Meter

|          |     |     |
|----------|-----|-----|
| TWA      | UNK | 10  |
| STEL     | UNK | UNK |
| CEILING  | UNK | UNK |
| SKIN:UNK |     |     |

**Wisconsin:**

NONE KNOWN

**West Virginia**

The following is on the West Virginia Toxic Air Pollutant List:

Calcium carbonate    CAS#1317-65-3    (Pounds per Year):

~~~~ SECTION 16 ~~~~ OTHER INFORMATION ~~~~

**HMIS® III**

**Health** : 2  
**Flammability** : 0  
**Physical Hazard** : 0

\*Following Health rating Indicates Chronic/Carcinogenic Effects

**HMIS® III Personal Protection : I**

This rating is for the product as it is packaged. This rating will need to be adjusted by the user based on conditions of use.

The information contained herein relates only to the specific material identified. United Coatings believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. To assure proper use & disposal of these materials & the safety & health of employees & customers, United Coatings urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.