



VIPER®

AQUACHECK LIQUID COATING 400 DAMPPROOFING / WATERPROOFING

SPECIFICATION INFORMATION VAPOR RETARDERS DIVISIONS: 071100, 071400

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1.0 Product Name

AquaCheck Liquid Coating 400
Below Grade
Waterproofing Membrane

2.0 Manufacturer



Insulation Solutions®

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3.0 Product Description

3.1 Basic Use:

AquaCheck Liquid Coating 400 is a single component, liquid applied, polymer modified, water based emulsion designed as an air and vapor barrier coating. **AquaCheck Liquid Coating 400** cures to form a tough, seamless, elastomeric membrane which exhibits excellent resistance to moisture transmissions. **AquaCheck Liquid Coating 400** has been specifically formulated to act as an air and vapor barrier system

within the building envelope. **AquaCheck Liquid Coating 400** is spray, brush or roll applied in one or two coats to the exterior vertical or horizontal surfaces of cast-in-place concrete, concrete masonry units, wood, metal, foam and OSB.

AquaCheck Liquid Coating 400 is suitable for both new and retrofit construction.

3.2 Composition & Materials:

AquaCheck Liquid Coating 400 is a latex modified asphalt emulsion with polymers and colloids to formulate a waterproof coating. **AquaCheck Liquid Coating 400** is 100% Asbestos, VOC and HAPs free.

Composition:

Asphalt	CAS 8052-42-4
Water	CAS 7732-18-5
Polymers	CAS Mixture
Clay	CAS 14808-60-7
Pigment Disperser	CAS Mixture

3.3 Size:

AquaCheck Liquid Coating 400 is supplied in 1-gallon (3.8 L) cans, 5-gallon (18.9 L) pails, 55-gallon (208 L) drums and 281-gallon (1064 L) totes. The recommended storage temperature ranges between 70°F (21°C) and 140°F (60°C). **KEEP FROM FREEZING.**

4.0 Technical Data

4.1 Applicable Standards

- **ASTM C 1306** Standard Test Method for Hydrostatic Pressure Resistance of a Liquid-Applied Waterproofing Membrane
- **ASTM D 4541** Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers
- **ASTM C 836** Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course
- **ASTM D 2939** Standard Test Methods for Emulsified Bitumens Used as Protective Coatings
- **ASTM D 412** Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension
- **ASTM E 96** Standard Test Methods for Water Vapor Transmission of Materials
- **ASTM D 1970** Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection
- **ICC AC-29** Acceptance Criteria for Cold, Liquid Applied, Below-Grade, Exterior Dampproofing and Waterproofing materials

Note: To the best of our knowledge, these are typical property values and are intended as guides only, not as specification limits. Insulation Solutions Inc.® makes no warranties as to the fitness for a specific use or merchantability of products referred to, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

PROPERTIES	TEST METHOD	AQUACHECK® LIQUID COATING 400
Density		8.1 lbs/gallon (0.92 g/cm ³)
PH		> 9.5
Viscosity		1500 - 2000 cP
Hydrostatic Pressure Over Cracks	ASTM C 1306	Rapid Test: Passes @ 3.75 psi (25.8 kPa) Long Term Test: Passes @ 2.5 psi (17.24 kPa)
Dry Content	ASTM C 1250	> 64%
Low Temperature Flexibility and Crack Bridging	ASTM C 836 Sec. 6.7	No Cracking or Loss of Adhesion @ -14.8°F (-26°C)
Heat Flow Test		Liquefies @ 385°F (196°C), Softens @ 150°F (65°C)
Adhesion Strength to Poured Cement	ASTM C 836 Sec. 6.10	13.239 lbf/in. (1.49 N/m)
Adhesion Strength to Masonry	ASTM C 836 Sec. 6.10	12.092 lbf/in. (1.37 N/m)
Pull Adhesion to Poured Cement	ASTM D 4541	77.2 psi (532.3 kPa)
Pull Adhesion to Masonry	ASTM D 4541	106 psi (730.8 kPa)
Resistance to Water	ASTM D 2939 Sec. 15	No Blistering or Re-emulsification
Remain in Place During Application	ASTM C 836 Sec. 6.9	Final thickness of 0.0162 in. (0.411 mm) @ > 24 hrs.
Water Vapor Permeance	ASTM E 96	0.138 U.S. Perms (0.091 Metric Perms)
Extensibility After Heat Aging	ASTM C 836 Sec. 6.12	Pass 1/4 inch (6.35 mm) Stretch With No Cracking
Tensile Strength	ASTM D 412-98	41.3 psi (284.75 kPa)
Elongation	ASTM D 412-98	>1800%
Nail Sealability	ASTM D 1970-01	No Leaks

NOTE: AQUACHECK® LIQUID COATING 400 PASSES THE REQUIREMENTS OF ICC AC-29 TABLE 1 FOR THE ACCEPTANCE CRITERIA OF A COLD, LIQUID-APPLIED, BELOW-GRADE, EXTERIOR DAMPPROOFING OR WATERPROOFING MATERIAL.

4.2 Environmental Considerations:

AquaCheck Liquid Coating 400 is 100% VOC, HAPS and Asbestos free.

4.3 Physical Properties

AquaCheck Liquid Coating 400 is a latex modified asphalt emulsion with polymers and colloids to formulate a waterproof coating.

5.0 Installation

5.1 AquaCheck Liquid Coating 400 is roller, brush or spray applied in one or two coats to the exterior vertical or horizontal surfaces of cast-in-place concrete, concrete masonry units, wood, metal, ICF and OSB.



5.2 Substrate Preparation:

The surface to which **AquaCheck Liquid Coating 400** is applied must be structurally sound, clean and dry and free of dust, mud, loose mortar, sand, soil, frost or other loose materials. There must be no fins, metal projections or any substance that will prevent bonding of the coating membrane to the surface.

Voids in concrete, tie holes and honeycombed areas in the foundation wall must be filled with non-shrinking grout or an asphalt based mastic. Where non-shrinking grout is used for filling voids, the grout must be allowed to cure before the membrane is applied.

Concrete and parged masonry surfaces must be cured and dry prior to application of the **AquaCheck Liquid Coating 400** membrane.

5.3 Application Temperature:

The air temperature for application of **AquaCheck Liquid Coating 400** can be as low as 26 °F (-3°C). **However, the product must not be allowed to freeze in the container or application equipment.** There is no maximum air temperature application limit.



5.4 Application Procedure:

AquaCheck Liquid Coating 400 can be applied by spray, roller or brush in one or two coats to an application of 60 mils wet, which will yield 40 mils dry. These equate to an application rate of 25 square feet per gallon. The coating will be dry to the touch within 10 minutes but should be allowed to cure for 4 to 24 hours after application.

AquaCheck Liquid Coating 400 is self priming and does not require the use of a primer. It has been tested compatible with all ABAA certified transition membranes and can be applied below and/or above these membranes.

5.5 Surface Temp. & Chemical Resistance:

AquaCheck Liquid Coating 400 is resistant to chemical attack and is very resistant to acids and salts. **AquaCheck Liquid Coating 400** should not be applied on surfaces that exceed 210 °F (99 °C).



5.6 Clean Up:

AquaCheck Liquid Coating 400 can be cleaned while wet with soap and water. If the **AquaCheck Liquid Coating 400** has cured; it can be removed with mineral spirits.

5.7 Storage & Limitations:

- Do not allow material to freeze
- Do not thin material
- Do not heat product over 160°F (71°C)

6.0 Availability & Cost

AquaCheck Liquid Coating 400 is sold through construction supply houses across the United States and Canada.

AquaCheck Liquid Coating 400 current cost information can be obtained by calling our corporate sales office at 866-698-6562.

7.0 Warranty

TO THE BEST OF OUR KNOWLEDGE, THE SPECIFICATION CHART ON PAGE ONE LISTS TYPICAL PROPERTY VALUES AND ARE INTENDED AS GUIDES ONLY, NOT AS SPECIFICATION LIMITS. INSULATION SOLUTIONS INC. MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, NO GUARANTEE OF SATISFACTORY RESULTS FROM RELIANCE UPON CONTAINED INFORMATION OR RECOMMENDATIONS AND DISCLAIMS ALL LIABILITY FOR RESULTING LOSS OR DAMAGE.

8.0 Maintenance

AquaCheck Liquid Coating 400 requires no maintenance once installed.

9.0 Technical Services

Technical Information and detailed test results can be obtained by calling our corporate office at 866-698-6562.

10.0 Filing Systems

Additional Information is available from the manufacturer.