



**L&M**  
Construction Chemicals

**AQUAPEL™**

DS-173.6.-0415

A product brand of LATICRETE International, Inc.



## 1. PRODUCT NAME

AQUAPEL™

## 2. MANUFACTURER

LATICRETE International, Inc.  
1 LATICRETE Park North  
Bethany, CT 06524-3423 USA

Telephone: +1.203.393.0010, ext. 235  
Toll Free: 1.800.243.4788, ext. 235  
Fax: +1.203.393.1684  
Website: [www.lmcc.com](http://www.lmcc.com)

## 3. PRODUCT DESCRIPTION

AQUAPEL is a new generation, 100% reactive, waterborne silane-siloxane sealer. AQUAPEL is a clear, penetrating, breathable water repellent is ideal for use on vertical or horizontal concrete surfaces. AQUAPEL penetrates concrete surfaces and chemically bonds directly with the substrate which results in a surface that is highly resistant to the attacks of both moisture and salt. AQUAPEL provides a unique, odorless, very low VOC formulation and offers permanent, non-yellowing protection. AQUAPEL creates an accelerated chemical reaction with the natural minerals in the substrate to produce a stable and predictable hydrophobic surface within seven days after application. AQUAPEL is ideal for normal duty, cast-in-place concrete with moderate exposure to salt and/or water.

### Uses

AQUAPEL offers positive salt screening. AQUAPEL's non-flammable, non-volatile formula minimizes corrosion of reinforcing steel and protects concrete from the damaging effects of deicer, road salts, and other chemicals. The performance of AQUAPEL makes successful field and lab performance make it ideal for walkways, stairs, outside malls, building entrances, parking decks, garages, driveways, piers, bus and truck terminals, precast and prestress concrete. Other uses include architectural concrete, concrete and brick pavers, and exposed aggregate surfaces, concrete block, and porous masonry units.

### Advantages

- For horizontal interior, exterior, above grade, cement based products
- Provides long lasting hydrophobic protection
- Odorless/Low VOC
- Ready-to-use, non-flammable, non-volatile, waterborne formulation
- Environmentally safe
- Invisible, non-darkening
- Allows for moisture to escape without compromising sealer
- Leaves surfaces breathable

### Suitable Substrates

- Existing Concrete
- Masonry
- Stucco

### Packaging

1 Gal (3.8 L)  
5 Gal (18.9 L)  
55 Gal (208 L)

### Approximate Coverage

Typical coverage rates, depending upon substrate porosity and anticipated conditions are:

Brick:	100-125 ft <sup>2</sup> /gal (2.4-3.1 m <sup>2</sup> /L)
Porous Surfaces:	125-150 ft <sup>2</sup> /gal (3.1-3.7 m <sup>2</sup> /L)
Broom Finish:	125-175 ft <sup>2</sup> /gal (3.1-4.3 m <sup>2</sup> /L)
Smooth Concrete:	150-200 ft <sup>2</sup> /gal (3.7-4.9 m <sup>2</sup> /L)
Densified Concrete:	200-300 ft <sup>2</sup> /gal (4.9-7.3 m <sup>2</sup> /L)

Additional coats may be necessary under certain porous conditions.

### Shelf Life

AQUAPEL containers are to be sealed and stored in a clean, dry area between 45-85°F (7-29°C). Keep from freezing. Shelf life is one year in unopened containers.

### Limitations

- Do not apply when product, and/or surface temperature is below 40°F (4°C) or above 100°F (38°C).
- Not recommended for below grade waterproofing.
- Protect glass, shrubbery, and plant life from over spray.
- Not effective for stone surfaces.
- Over application of AQUAPEL may cause a slight darkening of the surface and slipperiness.

## Cautions

- Keep from freezing.
- Wear protective gloves and goggles.
- Avoid prolonged skin contact and absolutely no contact with all food stuffs.
- Please refer to the safety data sheet (SDS) for more detailed information.
- Do not apply if precipitation is expected within four hours, or if rain has preceded the application in the past 24 hours.
- Do not apply in high winds.

Mock-ups and field test areas are required in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti-dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction, etc.) to ensure system performance as specified for the intended use, and to determine approval of the decorative flooring system.

## 4. TECHNICAL DATA

### Applicable Standard

NCHRP 244  
ASTM E514  
ASTM C672

### Physical and Working Properties

Property	Observed
Color	Milky white liquid; dries clear
Surface Gloss	None
Dry Time at 70°C (20°C)	2-4 Hours
ASTM C672 Scaling Test	0 (no scaling)
Resistance to UV	Excellent
VOC Compliance	<50 g/L
NCHRP 244 Series II, Water	85%
NCHRP 244 Series II, Chloride	84%
Depth of Penetration	2-6 mm

Specifications are subject to change without notification. Technical data shown in product data sheets are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance and test results will depend on installation methods and site conditions. Field test results will vary due to critical job site factors. All recommendations, statements and technical data contained in this data sheet are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind. Satisfactory results depend upon many factors beyond the control of LATICRETE International, Inc. User shall rely on their own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from their direct use, indirect use or consequential to their use of the product. LATICRETE shall not be liable to the buyer or any third party for any injury, loss or damage directly or indirectly resulting from use or inability to use the product.

## 5. INSTALLATION

### Preparation

Concrete must be structurally sound and clean of all dirt, laitance, contaminants, oil, existing coatings or membrane curing compounds before application. Repair deteriorated area with DURACRETE™. Caulking and sealant materials must cure adequately before applying AQUAPEL™.

### New Concrete

Allow concrete to cure 14 days or longer before applying AQUAPEL. Remove surface laitance and other contaminants.

### Installation

Agitate or stir AQUAPEL before using to disperse active ingredients. Do not dilute. Apply AQUAPEL directly from sealed containers. For best results apply with low pressure sprayer with fan nozzle, roller or

bristle broom. Apply in a single, uniform, saturating application. Broom out all puddles. On extremely porous substrates, two applications may be necessary. Apply the second application immediately when surface drying of first coat has become apparent. Interior densified concrete application: One coat only. Apply with fine even spray or microfiber pad. As product is drying, approximately 30 minutes, apply light spray of clean water and lightly scrub any residue either off or into the concrete.

### Vertical Surface Installation

Apply AQUAPEL with low pressure airless spray equipment. A garden sprayer is acceptable for small projects. Spray pressure should be no more than 20 psi (1.4 kg/cm<sup>2</sup>). For porous block surfaces, spray head should permit a heavy spray. Control overspray.

Extremely porous substrates may require two coats. Application of the second coat should proceed with wet on wet applications. Treat vertical areas using left to right passes. Saturate mortar joints. Application from the bottom up is necessary to provide uniform penetration. Use an overlapping pattern allowing materials to flood down from contact point at least 8" (200 mm). Apply a light mist coat before general application to help insure complete saturation. AQUAPEL will dry within two to four hours at 70°F (21°C).

### Cleaning

Clean up equipment and overspray immediately with soap and water. For dried residue, scrub with hot water and mild citric acid.

## 6. AVAILABILITY AND COST

### Availability

L&M™ and LATICRETE® materials are available worldwide.

### For Distributor Information, Call:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at

[www.lmcc.com](http://www.lmcc.com).

### Cost

Contact a LATICRETE Distributor in your area.

## 7. WARRANTY

See 10. FILING SYSTEM:

DS 230.13: LATICRETE Product Warranty

## 8. MAINTENANCE

Non-finish LATICRETE and LATAPOXY installation materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

Periodic light applications are recommended to maintain gloss and protection.

## 9. TECHNICAL SERVICES

### Technical Assistance

Information is available by calling the LATICRETE Technical Service Hotline:

Toll Free: 1.800.243.4788, ext. 235

Telephone: +1.203.393.0010, ext. 235

Fax: +1.203.393.1948

## Technical and Safety Literature

To acquire technical and safety literature, please visit our website at [www.laticrete.com](http://www.laticrete.com).

## 10. FILING SYSTEM

Additional product information is available on our website at [www.laticrete.com](http://www.laticrete.com). The following is a list of related documents:

- DS 230.13: LATICRETE Product Warranty
- DS 174.4: DURACRETE