L&M™ AQUAPEL™/AQUAPEL PLUS™

DS-173.6-1026

Globally Proven Construction Solutions

1. PRODUCT NAME
L&M™ AQUAPEL™/AQUAPEL PLUS™

2. MANUFACTURER
LATICRETE International, Inc.
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3. PRODUCT DESCRIPTION
L&M™ AQUAPEL™ is a new generation, 100% reactive, waterborne sealer. L&M™ AQUAPEL™ is a clear, penetrating, breathable water repellent that is ideal for use on vertical or horizontal concrete surfaces. L&M™ 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. L&M™ AQUAPEL™ provides a unique, odorless, very low VOC formulation and offers permanent, non-yellowing protection. L&M™ 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. L&M™ AQUAPEL™ is ideal for normal duty, cast-in-place concrete with moderate exposure to salt and/or water.

Uses
- L&M™ AQUAPEL™ offers positive salt screening. L&M™ 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 L&M™ 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 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
- Stucco
- Masonry Surfaces

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

Shelf Life
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 L&M™ 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 C672
- ASTM E514

Physical 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	<10 g/L
NCHRP 244 Series II, Water	85%
NCHRP 244 Series II, Chloride	84%
Depth of Penetration	2-6 mm

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

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 L&M™ AQUAPEL™™.

  New Concrete
  Allow concrete to cure 14 days or longer before applying L&M™ AQUAPEL™. Remove surface laitance and other contaminants.

  Installation
  Agitate or stir L&M™ AQUAPEL™ before using to disperse active ingredients. Do not dilute. Apply L&M™ 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 L&M™ 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^2). 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. L&M™ 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
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 **laticrete.com**

Cost
Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:

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.

9. TECHNICAL SERVICES

Technical Assistance
Information is available by calling the LATICRETE Technical Service Hotline:
Toll Free: 1.800.243.4788, ext. 1235
Telephone: +1.203.393.0010, ext. 1235
Fax: +1.203.393.1948

Technical and Safety Literature
To acquire technical and safety literature, please visit our website at **laticrete.com.**

10. FILING SYSTEM

Additional product information is available on our website at laticrete.com. The following is a list of related documents:

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

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