



AQUAPEL PLUS™

DS-173.5-0415

A product brand of LATICRETE International, Inc.



1. PRODUCT NAME

AQUAPEL PLUS™

2. MANUFACTURER

LATICRETE International, Inc.

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3. PRODUCT DESCRIPTION

AQUAPEL PLUS is a sealer designed for increased long-term protection on porous concrete, elevated structural traffic bearing concrete slabs, and on normal concrete with severe exposure to salt and water. AQUAPEL PLUS is a new generation, 100% reactive, waterborne silane-siloxane sealer. This clear, penetrating, breathable water repellent is ideal for use on exterior or interior concrete surfaces. AQUAPEL PLUS 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 PLUS is a unique, odorless, very low VOC formulation which offers permanent, non-yellowing protection. AQUAPEL PLUS accelerated chemical reaction with the natural minerals in the substrate produces a stable and predictable hydrophobic surface within seven days after application. AQUAPEL PLUS is ideal for normal duty, cast-in-place concrete with moderate exposure to salt and/or water.

Uses

AQUAPEL PLUS offers positive salt screening. AQUAPEL PLUS non-flammable, non-volatile formula minimizes corrosion of reinforcing steel and protects concrete from the damaging effects of deicer, road salts, and other chemicals. AQUAPEL PLUS 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, porous masonry units and vertical above grade concrete block.

Advantages

- Increased long-term protection on porous concrete
- For horizontal interior, exterior and above grade cement based products
- Formulated to stop moisture and salt penetration
- Odorless/VOC compliant formulation
- 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 Horizontal Concrete
- Horizontal Masonry

Packaging

5 Gal (18.9 L)

55 Gal (208 L)

Approximate Coverage

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

Cinder Block, Brick: 60-80 ft²/gal (1.5-2.0 m²/L)

Porous Surfaces: 125-150 ft²/gal (3.1-3.7 m²/L)

Broom Finish: 125-175 ft²/gal (3.1-4.3 m²/L)

Smooth Concrete: 150-200 ft²/gal (3.7-4.9 m²/L)

Densified Concrete: 200-300 ft²/gal (4.9-7.4 m²/L)

Additional coats may be necessary under certain porous conditions.

Shelf Life

AQUAPEL PLUS 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

- AQUAPEL PLUS™ should not be applied if air, product, and/or surface temperature is below 40°F (4°C) or above 100°F (38°C).
- Not to be used for limestone, marble and other stone surfaces
- Not recommended for below grade waterproofing.
- Protect glass, shrubbery, and plant life from over spray.
- Not effective for stone surfaces.
- Over application of 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 in high winds
- Do not apply if precipitation is expected within four hours, or if rain has preceded the application in the past 24 hours.

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
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 PLUS.

New Concrete

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

Horizontal Surface Installation

Agitate or stir AQUAPEL PLUS before using to disperse active ingredients. Do not dilute. Apply AQUAPEL PLUS 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/cm²). 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.

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:

DS 230.13: LATICRETE Product Warranty

DS 174.4: DURACRETE

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.

10. FILING SYSTEM

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

DS 230.13: LATICRETE® Product Warranty
DS 174.4: DURACRETE™