



L&M
Construction Chemicals

E-CON™

DS-172.9-1214

A product brand of LATICRETE International, Inc.



1. PRODUCT NAME

E-CON™

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

E-CON is a concentrated, odorless, water-based polymer liquid that, when placed on fresh concrete, helps to control the rate of evaporation and extend workability. When applied to fresh concrete, E-CON reduces contractor field problems with exposed exterior concrete by minimizing surface crusting and plastic shrinkage cracks. E-CON is ideal for achieving superior quality flatwork in challenging conditions such as high and low temperatures, low humidity, high winds, and direct sunlight. Proper placement of E-CON is aided by the presence of a dissipating pink dye.

Uses

E-CON aides workability with standard concrete mixes, silica fume concrete, thin concrete resurfacing, and all cementitious shake on floor hardeners after placement by protecting against moisture loss. The protective shield formed usually lasts as long as the concrete remains workable, despite successive floating and troweling operations. No residue or color remains after the concrete hardens.

Specification Description

03 39 13: Evaporation control: Apply monomolecular film to fresh plastic concrete one or more times as needed, before and after finishing operation. (ACI 305R)

Advantages

- Effective evaporation control
- Improves workability of freshly placed concrete
- Reduces plastic shrinkage cracks
- Reduces evaporation rates up to 80% in wind and 40% in hot sunlight
- Water based; low odor
- Remains effective after screeding and first floating operation
- Non-residual
- Economically concentrated

Suitable Substrates

- Freshly Placed Concrete

Packaging

1 Qt (1 L)
1 Gal (3.8 L)
5 Gal (18.9 L)
55 Gal (208 L)
275 Gal (1040 L)

Approximate Coverage

200-400 ft²/gal (4.9-9.8 m²/L) after dilution

Shelf Life

E-CON containers are to be kept tightly sealed and stored in a cool, dry place. Shelf life is one year when stored properly, between 40-105 °F (4-41°C). Keep from freezing.

Limitations

- Not to use as a curing compound
- Immediately wipe up any wet residue from hardened concrete surfaces

Cautions

- Avoid contact with skin, eyes and clothing
- Wash thoroughly after handling
- Do not take internally
- Wear skin and eye protection
- Please refer to Safety Data Sheet (SDS) before using
- Do not allow to freeze

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

ACI-305R

ACI-306

Note: For ASTM-C309 membrane compliance, see other L&M™ curing compounds and cure/sealers.

Physical and Working Properties

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

Surface preparation

Mixing

Shake or mix concentrate before dilution. Add 10 parts clean potable water to 1 part E-CON™ concentrate. Mix or shake again until thoroughly blended.

Application

Apply uniformly over fresh concrete using clean spray equipment with a fogging tip. Spray immediately after bull floating and during finishing operation as needed. The pink color of E-CON can be used as a visual placement aid that will quickly dissipate and not discolor concrete. In extreme drying conditions, re-apply additional E-CON as needed. Use on fresh plastic concrete as well as between shake-on hardener applications. Apply lightly on hard to trowel floor areas. Do not puddle. Immediately wipe up any wet residue from hardened concrete surfaces.

Cleaning

Clean tools using soap and water.

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

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

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