

## E-CON™

Evaporation Reducer For Plastic Concrete

### MANUFACTURER

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### PRODUCT DESCRIPTION

E-CON is a concentrated, odorless, water-based polymer liquid that, when placed on fresh concrete, forms a thin, continuous monomolecular film that temporarily reduces rapid moisture loss from the concrete surface. E-CON reduces contractor field problems with exposed exterior concrete by minimizing surface crusting and plastic shrinkage cracks.

E-CON helps achieve superior quality flatwork. It minimizes early water evaporation and controls the surface condition of the slab to aid in meeting finishing schedules. It is effective in minimizing rapid drying conditions due to high temperatures, low humidity, high winds and direct sunlight.

**Basic Use:** E-CON forms a temporary, protective film on plastic concrete surfaces that prevents rapid moisture loss. The protective shield formed usually lasts as long as the concrete remains plastic, despite successive floating and troweling operations. No residue remains after the concrete hardens.

Use E-CON evaporation control to aid with standard concrete mixes, silica fume concrete, thin concrete resurfacing, and all cementitious shake on floor hardeners after placement.

### FEATURES & BENEFITS

- Reduces plastic shrinkage cracks.
- Reduces evaporation rates up to 80% in wind and 40% in hot sunlight.
- Minimizes surface crusting
- Cement hydration is improved.
- Improves durability by controlling evaporation.
- Remains effective after screeding and first floating operation.
- Non-residual.
- Economically concentrated

### ESTIMATING

E-CON is available in 1 quart (.95 liter), 1 gallon (3.8-liter), 5-gallon (18.9-liter) and 55-gallon (208-liter) containers. Each container is clearly identified with product name and batch number.

Dilution Rate - 10 parts water:1 part E-CON or 1 quart per 3 ½ gallon spayer.

Coverage - 200-400 ft<sup>2</sup>/gallon (5-10 m<sup>2</sup>/liter) after dilution.

### TECHNICAL DATA

#### Standards- ACI-305R

Color - pink (disappears completely upon exposure to sunlight or other ultraviolet light source).

VOC compliant.

### INSTALLATION

**Mixing:** Shake or mix concentrate before dilution. Add 10 parts water to 1 part E-CON Concentrate. Mix or shake again until thoroughly blended.

**Application:** Use clean, dry spray equipment with fogging tip. Spray immediately after bull floating and during finishing operation as needed. In extreme drying conditions, re-apply additional material 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.

Concrete plastic shrinkage cracks and resulting stress cracks are a strong possibility when the rate of evaporation exceeds 0.2 pounds/ft<sup>2</sup>/hour (1.0 kg/m<sup>2</sup>/hour). Evaporation rate is a direct function of relative humidity, concrete temperature, air temperature, and wind velocity. The use of E-CON is recommended when the rate of evaporation of the concrete approaches or exceeds this level.

ACI Committee 305, "Recommended Practice for Hot Weather Concreting," developed a chart, which graphically determines evaporation rates under a given set of job site conditions. Copies are available from L&M upon request.



## **FOR BEST RESULTS:**

- Do not use concentrated.
- Use at proper dilution rate.
- Do not use as curing compound.
- Apply only as fine spray.
- Avoid puddling.
- Immediately wipe up any wet residue from hardened concrete surfaces and rinse surface to avoid stains.
- Clean-up with soap and water.
- Do not allow to freeze.

## **PRECAUTIONS**

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not take internally. Wear skin and eye protection.

Please refer to Product Material Safety Data Sheet (MSDS) before using.

## **STORAGE/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 (5°-40° C). Keep from freezing.

## **SHORT SPEC:**

033000: Evaporation control: Apply monomolecular film to fresh plastic concrete one or more times as needed, before and after finishing operation. (ACI 305R)

## **WEBSITE**

L&M's convenient internet website offers instant access to Tech Data Sheets, Material Safety Data Sheets, product updates, and other useful information. Visit [www.lmcc.com](http://www.lmcc.com) and follow the easy steps. L&M is ready to respond to your concrete information needs - anytime - anywhere!

## **LIMITED WARRANTY**

*This product is warranted to be free of defects in material and workmanship, and conform to L&M Construction Chemicals ("L&M") quality control standards. All recommendations, statements and technical data herein 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, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose. Satisfactory results depend upon many factors beyond L&M's control. User shall rely on his or her 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 his or her direct use, indirect use or consequential to their use of the product. L&M shall not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use or inability to use the product. L&M's sole responsibility shall be to replace that portion of the product which proves to be defective. Any warranty claim must be made within six (6) months from the date of the claimed breach. This limited warranty applies only if the product was properly installed and used according to all instructions and was properly stored prior to use.*

## **For Professional Use Only.**

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