

## IW-EC

### Evaporation Control for Plastic Concrete

#### DESCRIPTION

IW-EC is a concentrated, odourless, water-based polymer liquid that, when placed on fresh concrete, forms a thin, continuous mono-molecular film that temporarily prevents rapid moisture loss from the concrete surface. IW-EC greatly reduces contractor field problems with exposed exterior concrete by eliminating surface crusting and plastic shrinkage cracks.

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

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

Use IW-EC evaporation control to aid with plain concrete, silica fume concrete, concrete re-surfacers, and all cementitious floor hardeners after screeding.

#### FEATURES & BENEFITS

- Stops plastic shrinkage cracks.
- Reduces evaporation rates up to 80%.
- Minimises surface crusting
- Cement hydration is improved.
- Improves durability by controlling evaporation.
- Makes stiff concrete mixes for flat work easier to work.
- Effective after screeding and first floating operation.
- Non-residual.
- VOC compliant.

#### PROCESSING

**Mixing:** Shake or mix concentrate before dilution. Add 9 parts water to 1 part IW-EC concentrate. Mix or shake again until thoroughly blended.

**Application:** Use clean, dry spray equipment with fogging tip. Spray immediately after bull floating. In extreme drying conditions, re-apply additional material as needed. Use on fresh concrete as well as between each shake application. Apply lightly on hard-to-trowel floor areas.

Plastic shrinkage cracks and resulting stress cracks are a strong possibility when the rate of evaporation exceeds 1.0 kg/m<sup>2</sup>/hour (0.2 pounds/SF/hour). Evaporation rate is a direct function of relative humidity, concrete temperature, air temperature, and wind velocity. IW-EC is recommended when the rate of evaporation exceeds this.

**Limitation:** Do not use in concentrated form. Use at proper dilution rate. Do not use as a curing compound. Apply only as a fine spray, do not allow to freeze and avoid puddling. Immediately wipe up any wet residue from hardened concrete surfaces to avoid stains.

## DILUTION RATE AND CONSUMPTION

Dilution Rate - 9 parts water:1 part IW-EC  
Coverage - 5-10 m<sup>2</sup>/litre diluted.

## PACKAGING

IW-EC is available in 25 litre containers. Each container is clearly identified with component designation and product name.

Product shelf life is 12 months when stored in cool, dry conditions.

## WARRANTY

IW-EC when used as instructed, will reduce water evaporation rates of fresh concrete up to 80% in wind and about 40% in hot sunlight. It will not reduce concrete strength, abrasion resistance, or durability.

The absolute quality of the material used and the high standard of packaging, in secure plastic containers, allow IDEAL WORK materials to be produced, packaged and delivered in perfect condition, without contamination or compromise.

IDEAL WORK cannot be responsible for any damage or contamination which occurs during transportation.

### IMPORTANT:

All information contained in this data-sheet is based on the best practical and laboratory expertise. The customer is responsible for checking the product is suitable for use. The producer does not accept any responsibility arising from wrong applications. We recommend testing the products on small surfaces before use. This data-sheet replaces and annuls the previous ones. Data might be changed anytime. We also remind you that Ideal Work products are for professional use and Ideal Work provides customers with training opportunities upon request. Whoever uses these products without authorisation, shall take full personal responsibility and at their own risk.

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