



# Product Features

The term "curing" is frequently used to describe the process by which hydraulic-cement concrete matures and develops hardened properties over time as a result of the continued hydration of the cement in the presence of sufficient water and heat. The process of curing concrete serves two main purposes: curing retains moisture in the slab so that concrete can continue to gain strength and it also delays the drying of the surface in order to prevent shrinkage cracks.

Membrane curing like **DuraCure** is an alternative method of keeping the moisture in the slab. The curing of the concrete is dependent on the quality, thickness, and uniformity of the film applied to the concrete. The use of **DuraCure** membrane is a relatively inexpensive component in the process of quality concrete construction and, quite often, the most overlooked.

### DuraCure greatly reduces risk of:

- Concrete scaling
- Surface dusting
- Plastic shrinkage

### DuraCure will increase:

- Abrasion Resistance
- Strength

**DuraCure** forms a membrane film which seals 97.3% of the hydration water to provide maximum strength and permeability of the surface while also providing abrasion resistance. Construction debris does not adhere to the concrete, cleanup is easier, and the labor cost is less.

## HOW WE COMPARE

**DuraCure** is a high-quality curing compound designed for the concrete industry. BARDPRO uses the finest resins in the curing compound to ensure moisture retention and exceptional performance.

**DuraCure**  
EVAPORATION MODEL  
Moisture Loss 0.21 kg/m<sup>2</sup>

**Kure-N-Seal**  
EVAPORATION MODEL  
Moisture Loss 0.38 kg/m<sup>2</sup>



The moisture loss comparison between **DuraCure** and **Kure-N-Seal\* 25 LV** is 0.21 kg/m<sup>2</sup> compared to 0.38 kg/m<sup>2</sup>.

\*According to Kure-N-Seal manufacturer data sheet.



## DURACURE BENEFITS

- **DuraCure** retains moisture at a much greater rate than Kure-N-Seal 25 LV.
- **DuraCure** has methacrylate resin which, when used properly, will never yellow.
- BARDPRO uses a quality solvent that does not allow the resin to separate in any temperature and never needs stirring.
- **DuraCure** dries in one hour versus four hours for Kure-N-Seal 25LV, which is especially helpful on windy days or if rain is in the forecast.
- **DuraCure** is allowed on projects where incidental contact with food may occur.
- Store **DuraCure** in any temperature – it never separates and never needs stirring.

## CONCRETE STRENGTH: MOIST CURED VS. AIR

Concrete strength increases with age as long as moisture and temperatures are favorable for hydration of cement. In the chart below, concrete that is in air the entire time (no curing) is only 55% of the strength of moist cured concrete at 28 days. In air after three days is 80%, and In air after seven days is 90%. As the chart below demonstrates proper curing is critical for strength development and durability.

