

**Everlast Concrete Technologies (ECT) offers two-part concrete protection:**

(1) **Cement Hydration Catalyst (CHC)** super activates water molecules to hydrate more Portland cement, producing MORE cementitious paste in the mix, giving a better quality concrete;

(2) **Cure and Penetrating Sealer (CPS)** clogs all the capillaries by penetrating the pores and forming a gel in the concrete. CPS works on both old or new concrete to enhance impermeability to harmful elements.

ECT CHC and CPS products build your reputation by producing concrete without problems, eliminating time and money wasting callbacks. ECT products work consistently to produce high-quality concrete on every job TO GIVE THE BEST **RETURN ON INVESTMENT (R.O.I.)**.

ECT products, when used in a new concrete project, significantly reduce the overall **LIFE-CYCLE-MANAGEMENT COST** of the project.



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**BEST PERMANENT  
CONCRETE PROTECTION**



## THE EASY CHOICE

Concrete is durable, economical and plentiful, and Everlast Concrete Technologies (ECT) products make it more durable, thus significantly **reducing the overall life-cycle-cost** of any concrete project.



### Our Two Flagship Products for most of the concrete problems:

#### **CEMENT HYDRATION CATALYST (CHC)**

CHC is added to the mix water before Portland cement. CHC supercharges the mix water, ensuring better hydration of the cement and increasing the cementitious paste in the mix. You get a higher quality concrete for your money. CHC improves the concrete's microstructure; the mix doesn't segregate and has smaller air voids for greater impermeability. And the mix is so consistent; your first load will be the same as your last. CHC is used at the rate of 10 ounces per 100 pounds of Portland cement, so it's highly affordable.

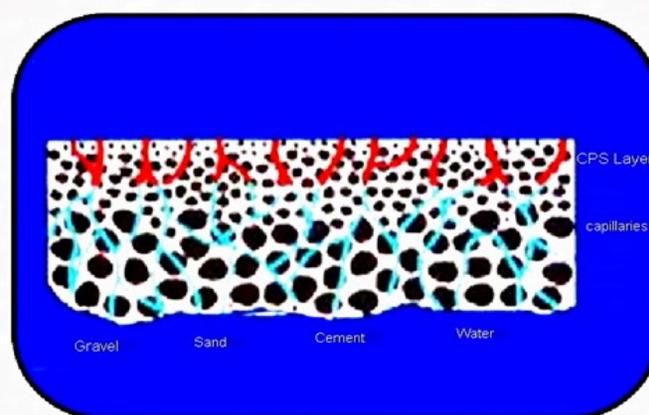


#### **CURE & PENETRATING SEALER (CPS)**

CPS is more than a sealer - it penetrates the concrete, the depth of penetration depends on the porosity of the concrete. CPS increases the surface density of concrete and water-proofs it from the inside. However, CPS stays below the surface and does not affect surface properties. CPS can be used as a cure on new concrete, CPS locks all the mix water inside the concrete to help maximize hydration process. CPS can prevent further deterioration as long as the existing concrete in good structural condition. CPS helps reduce or eliminate ASR and Freeze-thaw damage by eliminating fluid migration into concrete.

#### **HOW DOES CPS WORK?**

When concrete hardens, the bleed water rises, forming a curvy capillary system through which water and air passes through. CPS soaks in to these capillaries and reacts with the alkalides left over from the hydration process, forming a gel-like substance which forms a barrier that effectively seals the concrete. The jell stays inside the concrete for the rest of the life of the concrete to provide life long protection.



## TESTING

CHC (alone and as cured with CPS) meets or exceeds the following criteria for High Performance Concrete and was tested according to the standards below:

### **STRENGTH CRITERIA**

Compressive Strength ASTM C39  
AASHTO T22  
Flexural Strength ASTM C78  
Splitting Tensile Strength ASTM C496  
Modulus of Elasticity ASTM C469  
Shrinkage ASTM C157  
Creep ASTM C512

### **DURABILITY CRITERIA**

Freeze Thaw ASTM C666, AASHTO T161  
Scaling ASTM C672  
Abrasion ASTM C944  
Chloride Permeability ASTM C114, C1202, AASHTO T277  
Sulfate Attack ASTM C1012  
Petrographic Examination ASTM C457, C856

## BENEFITS

### PERFORMANCE

- **Ease of placement**
- **Greater impermeability**
- **Prolonged Durability**
- **Early design strength**
- **Toughness**
- **Volume stability**
- **Longer life in severe environments**

### COST

- **Faster Job time**
- **Less material**
- **Fewer seams**
- **Reduced maintenance**