



## Concrete is Multi-Dimensional



### How Negative Pressure Effects Concrete

When waterproofing concrete we must consider all six sides not just the exposed surface. Concrete breathes from all sides thus moisture can enter from all sides. This is why integral waterproofing is essential as a stand alone system or if a membrane is being used to enhance the surface.

Concrete is a multi faced porous surface with vapor drive attacking from both the positive and negative sides. Traditionally membranes are used to protect the positive side with little attention paid to the negative side vapor transmission.

Let's consider a concrete substrate that has a membrane applied on the positive side. The negative side is exposed and will show a dramatic reduction of pH levels under the membrane caused by the inability of the membrane to breathe and trapping the chlorides and gases. The result is carbonation and pre-mature rebar failure.

Traditionally to protect reinforcement metal within the concrete an anti-corrosive is introduced into the concrete. While this product is designed to protect metal, it has no waterproofing capabilities or the ability to block contaminants from the concrete's matrix. Anti-corrosives also are considered a maintenance item and do not have self healing properties.

The Foxfire P-1007 concrete densifier/-sealer is a deep penetrating (2"-4") hydrophilic non-membrane forming product that can block moisture from both the positive and negative side without altering the surface profile of the concrete. It is for this reason, that if a topical membrane or tile is required on the top surface, the concrete is free and clear to accept attachment of the overlay. The P-1007 is not a bond blocker.

The Foxfire P-1007 concrete densifier/-sealer can be used as a stand alone product or under any form of membrane to protect concrete from the ingress of contaminants into the concrete's matrix created by positive or negative moisture pressure. It is a one time application that will continue to react and develop more crystals if moisture were to attack the substrate over time.

P-1007 is a cost effective, maintenance free sealer/densifier that will protect your concrete from all 6 sides. It can be easily applied with the premixed water-based solution using a pump or low pressure sprayer. It has zero VOCs and is environmentally safe. When specifying balconies, exposed walkways, slab on grade floors, foundations, or any concrete surface exposed to moisture think integral waterproofing think Foxfire.

**Our company philosophy is  
Solving problems  
Not just selling you products.**