

## VAPOR BARRIERS, CORROSION INHIBITORS, CURING COMPOUNDS & BONDBREAKERS

1. VAPOR BARRIERS - A sand and visqueen vapor barrier is not necessary nor is it recommended with the use of MOXIE 1500 Concrete Sealer, in slab-on-grade construction. A vapor barrier will slow down hydration and therefore take a longer period of time for final chemical process of MOXIE 1500 Concrete Sealer. The EXTENDED time required could take as long as three to as long as six ADDITIONAL months, depending on weather conditions before flooring can be installed.
2. CORROSION INHIBITORS - MOXIE 1500 Concrete Sealer is a corrosion inhibiting penetrating sealer. It forms a passive corrosion inhibiting barrier initially, eventually forming a permanent, cementitious, corrosion inhibiting barrier. Furthermore, the impermeable nature of the concrete prevents the ingress of chloride ions. Calcium nitrite, the chemical category of a typical corrosion inhibiting admixture forms the same passive barrier around the reinforcing steel as MOXIE 1500 Concrete Sealer. However, in order to achieve as high a threshold against corrosion as MOXIE 1500 Concrete Sealer, it would be necessary to substantially increase the dosage, making these types of admixtures cost prohibitive. Additionally, the most important aspect is to restrict the penetration of any chloride ions whatsoever. The impermeable nature of the concrete, when treated with MOXIE 1500 Concrete Sealer, does not allow any leaching of the concrete's components when exposed to water or high humidity. Continual leaching of soluble compounds weakens the concrete and in turn produces even more permeability which enhances corrosion of reinforced concrete.
5. CURING COMPOUNDS - A curing compound is not recommended. Flooring manufacturers, as well as new architectural recommendations, prohibit the use of curing compounds due to the high incompatibility with the new, VOC compliant, adhesives. MOXIE 1500 Concrete Sealer restricts the rapid loss of surface water, under the performance criteria of ASTM C309 - Specification for Membrane Forming Curing Compounds. Misting with water may be used in temperatures in excess of 85<sup>o</sup> F.
6. BONDBREAKERS - Bondbreakers which are *CHEMICALLY REACTIVE* are compatible with MOXIE 1500 Concrete Sealer. MAXI TILT "E", Dayton JP-6 or equal are acceptable. Apply MOXIE 1500 Concrete Sealer as a curing compound. Allow approximately one to two weeks cure prior to application of bondbreaker. Apply primer coat of bondbreaker as per manufacturers instructions. Apply second coat. Sprinkle water on the primed surface. Water should "bead up", if not apply another coat. Bondbreaker may not stick to the surface of the slab and possibly will need to be removed from the contact side of the cast tilt-up panel. Follow all manufacturers instructions.