

VAPOR BARRIERS, CORROSION INHIBITORS, CURING COMPOUNDS & BONDBREAKERS

1. VAPOR BARRIERS - Do not use a sand and visqueen vapor barrier. A vapor barrier will slow down hydration and therefore take a longer period of time for final chemical process of MOXIE 1800 SUPER-ADMIX. 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. A sand sub-grade may be used. Sand improves the curing process in slab-on-grade construction.
2. CORROSION INHIBITORS - MOXIE 1800 SUPER-ADMIX is a corrosion inhibiting admixture. 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 inhibitor, forms the same passive barrier around the reinforcing steel as our admix. However, in order to achieve as high a threshold against corrosion as MOXIE 1800 SUPER-ADMIX, 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 1800 SUPER-ADMIX, 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 - Do not use a curing compound. 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 1800 SUPER-ADMIX restricts the rapid loss of surface water, under the performance criteria of ASTM C309 - Specification for Membrane Forming Curing Compounds. Fog misting with water may be used in temperatures in excess of 85⁰ F.
6. BONDBREAKERS - Bondbreakers which are chemically reactive are compatible with MOXIE 1800 SUPER-ADMIX. MAXI TILT "E", Dayton JP-6 or equal are acceptable. Allow approximately one to two weeks slab cure prior to application. 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 will not stick to the surface of the slab and will need to be removed from the contact side of the cast tilt-up panel. Follow all manufacturers instructions.
7. DOSAGE - To achieve the above results the recommended dosage of MOXIE 1800 SUPER-ADMIX, for standard portland cement, is 10 ounces per 94 lb. sack of cement. Stucco, shotcrete or mortar use 15 ounces per 94 lb. sack of cement. Include any cementitious materials such as fly ash in this calculation.