



Basic Use:

MOXIE 1800 SUPER-ADMIX is a ready to use liquid admixture formulated for concrete to stop moisture vapor migration and alkali efflorescence attack above and below grade. Ideal for use on stucco, shotcrete, mortar and white portland cement pool plaster applications. A complex process converts the by-products of hydration into a higher density of cementitious materials thereby reducing permeability. The additional cementitious materials, by their very chemical and physical nature, produce concrete with a much greater density and surface hardness, a dramatic increase in bond, flexural, tensile and compressive strength, and reducing shrinkage cracking while achieving near-zero capillary voids. Adhesion characteristics of the surface are improved by providing the ideal surface dry condition necessary for coatings, paint or floor coverings. The use of MOXIE 1800 SUPER-ADMIX alone, without any other additives, will produce of the highest quality, impermeable concrete possible for the given mix design.

Advantages:

- Stops moisture migration, above/below grade (0.011 WVT)
- Increased flexural strength up to 200% or more
- Replaces sand/visqueen vapor barrier
- Shrinkage compensating thermal barrier
- Plasticizer
- Curing compound sealer
- Dust proofing compound
- Prevents chloride intrusion
- Resists freeze thaw
- Resists spalling and flaking
- Resists acids and sulfates
- Resistant to extreme abrasion
- Ideal for stucco, plaster, shotcrete, grout and mortar
- Increased compression strength up to 177%
- Increased surface hardness to 200% or more
- Corrosion inhibitor
- Pumping-quality mix
- Finishing aid
- Reduces internal chloride ion levels
- Resists scaling
- Resistant to oils fats and solvents
- Resists chlorides and hydrogen sulfides
- Resists lichen, moss and other accretions
- Resists rust and water-borne stains

Description:

MOXIE 1800 SUPER-ADMIX is an in-organic, chemically reactive, complex catalyzed silicate that initially *FORMS AN INTEGRAL COLLOIDAL GEL MEMBRANE* prior to initial set. This *ELIMINATES BLEED WATER* and *RESTRICTS THE RAPID EVAPORATION OF SURFACE WATER* even in gusty wind conditions, which *PREVENTS SHRINKAGE CRACKING AND SLAB CURL*, and provides an *INTEGRAL CURING COMPOUND*. Additionally the colloidal gel mass *SERVES AS A THERMAL BARRIER* that *CONSERVES HEAT* generated by hydration during colder conditions, *REDUCES HEAT ABSORPTION* in hot weather, and forms a passive, *CORROSION INHIBITING, BARRIER* around reinforcing steel, ultimately forming a permanent, cementitious barrier. This process continues to parallel the curing process by forming additional cementitious material for 28 days. From 28 days to completion of hydration the final chemical phase completes the last of the chemical process converting and reducing the remaining capillary voids present after hydration to near-zero.

Packaging:

MOXIE 1800 SUPER-ADMIX is available as follows: * 275 gallon tote(US) * 55 gallon drums(US) * 5 gallon pails(US)

Applicable Standards:

ASTM E96, E1745, F710, F2170 Sec 7.9, C156, C157, C309, C567, C666, C805, C494, D4263, D5084, IBC 1911 CARB EPA USDA VOC=0

Limitations:

If ambient temperature is below 50° F or an accelerator is needed, use **MOXIE FASTSET50** to decrease set time up to 50%, or above 85° F, a retarder may be used per manufacturer's instructions to extend the working time of the concrete. If a retarder is used, mixing should continue for at least 15 minutes before placing, ASTM C94 - Specifications for Ready Mix Concrete. DO NOT USE SURFACE SEALER/HARDENERS, THEY WILL PREVENT PROPER MECHANICAL BOND OF ADHESIVES, OMIT SAND/VISQUEEN VAPOR BARRIER, DO NOT USE CURING COMPOUNDS, NON-CHLORIDE ACCELERATORS MAY BE USED, FOG MIST ONLY WITH WATER IF NECESSARY, ACI 302 – CONCRETE FLOOR AND SLAB CONSTRUCTION.

Technical data:

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|-----------------|-------------------|-------------------|----------------|-------------------|------------------------------|---|
| Water Vapor | | Moisture Vapor | | Permeability | | Curing (loss of water) |
| ASTM E96 | | ASTM D4263 | | ASTM D5084 | | ASTM C309 (C156) |
| 0.011 WVT - | 96 hr's. @ 70° F | none | 48hrs @ 110° F | none | 6.56 x 10 ⁻⁹ cm/s | 24 hrs. - 0.433k ² /m ² |
| .3 WVT min | 127 hr's. @ 70° F | none | 96hrs @ 110° F | none | @ 50psi cell pres | 72 hrs. - 0.541k ² /m ² |

Physical Characteristics

| | | | | | |
|------------|-----------------|--------------|----------------|------------|------------|
| Dispersion | Liquid | Flammability | none | Freezing | 32° F |
| Appearance | colorless/straw | Flash Point | none | Shelf life | indefinite |
| Odor | none | pH | 11.3(alkaline) | VOC | 0 |

Dosage:

MOXIE 1800 SUPER-ADMIX is used at a dosage of 10 ounces per 94 pound sack of portland cement, or 15 to 20 ounces per sack for mortar, stucco, shotcrete, or a higher performance dosage. Include any cementitious materials such as fly ash in the calculation. Consult the 'Batch Plant Instructions' or a MOXIE International Technical Representative for specific details.

Warranty: 20 year standard warranty. **Optional 10 Year Registered Warranty available directly through Moxie International only and is not available through ready-mix concrete suppliers, dealers or distributors.**