

TECHNICAL DATA SHEET



MOXIE SHIELD 1700 ***STUCCO & PLASTER WATERPROOFING ADMIX***

A NON-TOXIC, READY-TO-USE, LIQUID ADMIXTURE FORMULATED FOR CEMENTITIOUS STUCCO & PLASTER TO STOP MOISTURE VAPOR, WATER MIGRATION AND ALKALI EFFLORESCENCE.

AT A GLANCE

MOXIE SHIELD 1700 Stucco & Plaster Waterproofing Admixture is especially designed for vertical, thin-layered cementitious construction. MOXIE SHIELD 1700 Stucco & Plaster Waterproofing Admixture creates a complex chemical reaction by converting the by-products of cement hydration into a higher density cementitious material creating an impermeable substrate. The unique chemistry of MOXIE SHIELD 1700 Stucco & Plaster Waterproofing Admixture forms an integral colloidal gel membrane prior to initial set. These colloidal gels eliminate the formation of capillary pathways and restrict the rapid evaporation of surface water.

RECOMMENDED USES

For use on above and below grade:

- Exterior & Interior Walls
- Airports
- Arenas
- Basements
- Swimming Pools
- Tunnels and Subway Systems

ADVANTAGES

- Inhibits water vapor transmission
- Stops alkali efflorescence
- Increases compressive and flexural strength
- Provides a shrinkage compensating thermal barrier
- Plasticizer-like characteristics
- Retains moisture during initial curing
- Resists scaling, spalling and flaking
- Resists lichen, moss and other accretions
- Increases freeze-thaw durability
- Increases surface hardness
- Corrosion inhibitor
- Pumping and finishing aid
- Resistant to acids, oils, fats and solvents
- Resists rust and waterborne stains

DURABILITY & SUSTAINABILITY

- Building for future generations – The MOXIE SHIELD technology strengthens the inner structure of cementitious stucco and plaster and leads to longer lasting quality structures.
- LEED Certification: MOXIE SHIELD 1700 Stucco & Plaster Waterproofing Admixture increases available LEED credits for projects.
- Zero VOC (EPA 24 VOC) – The MOXIE SHIELD technology is based on inorganic compounds.
- Non-Toxic/Non-Hazardous – The liquid MOXIE SHIELD 1700 Stucco & Plaster Waterproofing Admixture is not toxic or hazardous; therefore, when protecting stucco and plaster from moisture intrusion it will not release toxic or hazardous emissions.
- Water-Based – The technology is a water-based carrier for inorganic ingredients.

HARDENED PROPERTIES

Compressive Strength

MOXIE SHIELD 1700 Stucco & Plaster Waterproofing Admixture adds an increased level of robustness to the stucco or plaster mix, especially when less than ideal conditions are present during the application.

Flexural Strength

Along with an increase of compressive strength, an increase in flexural strength is expected proportional to the compressive strength increase.

Length Change

MOXIE SHIELD 1700 Stucco & Plaster Waterproofing Admixture mixes has shown reduced shrinkage compared to a control mixes.

DOSAGE RATE/USE

16 to 24 oz per cwt (1040 to 1565 ml/100 kg) of cementitious materials. Include any other cementitious materials (such as fly ash) in the calculation. The proper amount of MOXIE SHIELD 1700 Stucco & Plaster Waterproofing Admixture to a minimum of 20% of batch water.

Reduce an equal amount of batch water from the mix. Continue the batching process, including cementitious materials, aggregates, remaining batch water and other additives. Do not exceed a 0.52 w/(c+p) ratio regardless of slump/workability.

PUMPING

MOXIE SHIELD 1700 Stucco & Plaster Waterproofing Admixture has characteristics of a pumping aid. There will be less line pressure in concrete pump.

PACKAGING

MOXIE SHIELD 1700 Stucco & Plaster Waterproofing Admixture is available in 1 gal (3.8 L), 5 gal (18.9 L) pails, 55 gal (208 L) drums and 275 gal (1041 L) totes.

HANDLING AND STORAGE

- Handling: Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Remove with running water or a damp cloth immediately. Masks and gloves are recommended.
- Due to pH level, DO NOT allow this product to come in contact with plant life or leather.
- DO NOT allow product to come in contact with glass, porcelain or ceramic tile, aluminum, zinc or galvanized steel. Product will permanently etch or erode the surface. Must be rinsed with running water or removed with damp cloth immediately.
- Storage: Keep the container closed. Store in clean steel or plastic containers.
- Keep separate from acids, reactive metals, and ammonium salts. Store above 40°F / 4.5°C.
- Indefinite shelf life. DO NOT ALLOW PRODUCT TO FREEZE.

ADDITIONAL INFORMATION

During low ambient temperatures, an accelerator may be used. DO NOT USE CHLORIDE ACCELERATORS. In high ambient temperatures, or if a delayed set time is desired, a set retarder may be used. MOXIE SHIELD 1700 Stucco & Plaster Waterproofing Admixture in the mix will retain surface moisture to assist the curing process. If additional protection from surface moisture evaporation is needed, fog misting, or an evaporation retardant may be used.

MANUFACTURER'S GUARANTEE

MOXIE SHIELD 1700 Stucco & Plaster Waterproofing Admixture is guaranteed to perform and be manufactured per the specifications contained in the Moxie Engineering documentation.

RELATED DOCUMENTS

Application Procedures
Safety Data Sheet
FAQ