

CUTSHEET

SUBSURFACE / HYBRID EVAPORATING MEMBRANE CURE & HARDENER / SINGLE APPLICATION

GREEN UMBRELLA® MOISTURE BLOC 5



STOPS MOISTURE FROM THE POUR TO THE SPORE.

Green Umbrella® MoistureBloc™ is a concrete admixture for @EarlyAge concrete that produces impermeable, moisture and vapor-proof concrete. Everywhere concrete is demanded to be moisture-proof, MB5 should be introduced during concrete batching, replacing traditional MVRA (Moisture Vapor Reducing Admixture). Protect the investment of moisture-sensitive coatings, floor coverings, adhesives, roofing, sub-grade waterproofing, without fear of future moisture issues. Proactively producing impermeable, waterproof concrete will preserve building interior finishes and, more importantly - occupants' health - preventing the growth of mold and mildew and presenting a barrier to radon, improving IEQ and IAQ Indoor Environmental Air Quality.



CUT LABOR

Eliminates the need for future moisture mitigation treatments, from the day of placement.



CUT DOWNTIME

Eliminates the need for additional processes or testing. Concrete treated with MB5 is ready as an exposed architectural concrete surface or for any adhesive or floor covering.



CUT ENVIRONMENTAL IMPACT

Eliminates the potential for fungi, mold and algae growth on any concrete surface reducing or eliminating potential causes of Sick Building Syndrome (SBS) or Building Related Illness (BRI).

¹Spray-On, Leave-On ²Ready-To-Use

EASY TO INTRODUCE - SIMPLE TO CALCULATE

MoistureBloc™ is introduced at the batch plant during concrete mixing as a liquid admixture is dosed @ 10oz per 100 lbs weight of cementitious material (See MoistureBloc Application Sheet). Recommended .45-.52 w/cm. For best results introduce during the end of freshly mixed concrete with the tail water.

ARCHITECTURAL APPLICATIONS

Ideal for interior or exterior, vertical or horizontal concrete, precast or cementitious surfaces. Demanding Applications, warehouse/distribution centers, food service, parking decks, parking lots, bridge decks, roadways, garages, hospitals, or similar, retail spaces & showrooms, restaurants, business offices, lobby areas, museums, municipalities, airports, hospitals, schools, fire-stations, masonry or most concrete surfaces.

TECHNICAL INFORMATION

Chemical Family	_____	Silicate
Substrate Location	_____	Integrally Batched
Physical State	_____	Liquid
Odor	_____	Odorless/Clear
Type	_____	Single Component
pH	_____	10-12
Boiling Point	_____	212°F (100°C)
Packaging	_____	5-gal bucket, 55-gal drum, 275-gal tote
Shelf Life	_____	1 years
VOC(grams/liters)	_____	0 g/L
Freezing Point	_____	32°F(0C)

SAFETY DATA SHEETS FOR ALL PRODUCTS ARE AVAILABLE AT
WWW.GREENUMBRELLASYSTEMS.COM

BASIC USAGE

MoistureBloc should be added to cementitious concrete material when vapor and Water proofing is desired. Additionally it will densify, dust proof and harden concrete. By closing the capillary system a vapor proof surface is created allowing installation of moisture sensitive coatings and adhesives in a normal construction schedule.

FEATURES & BENEFITS

- Efficiently produces new age concrete that is moisture repellent
- Organically eliminates the potential for Fungi, Mold and Algae growth.
- Proactive Moisture Mitigation
- Promotes an advanced Construction Schedule
- Improves Indoor Air Quality
- The surface is 9 or less pH, required for flooring installation.
- Will not weaken Compressive Strength like Competitive Products
- Radon Barrier
- Sick Building Syndrome Barrier
- Stops the route of MVE (moisture Vapor emission)
- Allows the use of water-based moisture sensitive coatings and adhesives
- Treatment is permanent and integral

- Increases concrete density and hardness
- Improves the bonding of cementitious toppings, coatings and paint Reduces or eliminates efflorescence and leaching in concrete
- Effective in reducing freeze-thaw and salt spalling
- Prevents chemical corrosion and physical abrasion of the treated surface Solvent free, odor free, non-toxic and non-flammable
- Stops rebar corrosion
- Increased abrasion resistance
- Reduces curling

ESTIMATING

Container Size:

5 gallon (18.9L) - 43 lbs. (19.5 kgs)
55 gallon (208L) - 469.1 lb (212.8 kg)
275 gallons (1,041 L) - 2,345.6 lb (1,064 kg)

Each Green Umbrella MoistureBloc container is properly labeled with information, including the product name, description, batch number, and application instructions.

Dosage: 10oz per 100 lbs weight of cementious material.

Testing: ASTM D-5084 Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter.

Shelf Life: 24 MONTHS

Human Health - Indoor Environmental Quality (IEQ)

- Architectural Concrete may be finished so as to dramatically reduce bacterial adhesion and the presence of biofilms, creating a healthier environment free of harmful bacteria and viruses.

Human Health - Indoor Air Quality (IAQ)

- Many studies indicate that indoor air quality is enhanced with properly maintained Architectural Concrete vs. carpet or other floor coverings
- Architectural concrete does not support combustion, nor does it produce smoke or toxic fumes (LEED v4.1 Operations and Maintenance, propane equipment)
- Architectural Concrete can eliminate moisture issues shrinking, possible growth of mold and fungus.

Human Health - Indoor Air Quality (IAQ)

- Green Umbrella Architectural concrete has zero Volatile Organic Compounds (VOC) content.

Optimize Energy Performance

- Architectural concrete utilizes the thermal mass of concrete, providing advantages in heating and cooling.
- Architectural concrete may be finished in a way that increases light reflectivity - amplifying the benefits of ambient (natural) lighting and reducing process loads from light fixtures.

Building Reuse/Construction Waste Management/Recycled Content

- Existing Buildings — Environmental stewardship through the use and/or refurbishing of existing concrete.
- New or Existing Buildings — No additional materials, labor or energy required to produce or introduce a floor covering or topical coating. No tear out and replacement of worn, weakened or otherwise damaged concrete when repaired using PCR.

Long-term Maintenance

- Concrete placed using MoistureBloc will better protect steel reinforcement and prevent moisture related problems resulting in costly repair/maintenance.

Life Cycle Cost

- Sources show Architectural Concrete to be the lowest life-cost flooring option available.

WEBSITES & PRODUCT CONSULTING

Architects & General Contractors:
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