

MOXYEPOXY+



MoxyEpoxy+ is a high strength, hydrophobic, breathing type, two-component, modified epoxy coating manufactured from a balanced ratio of fillers, and water extended resins and hardeners. Our exclusive formula combines flexibility with the hardness of epoxy resins. During the curing phase MoxyEpoxy+ polymers cross-link to create a macromolecule of extreme durability to provide optimum resistance to a wide variety of chemicals, severe below-grade hydrostatic pressure, and other environmental conditions.

MoxyEpoxy+ mixture penetrates deep into the surface capillaries, that when totally cross-linked, serve as a water-insoluble lining on the sidewalls of the pores and voids in the substrate making them water repellent. This lining robs the water of its capillary action preventing moisture from entering through the masonry. Successive coats, each bonded to the previous coat, build up sufficient density, cohesion, and strength to render the surface pinhole-free and impervious to mass water penetration.

APPLICATION AREAS

- Wet Leaky Basements
- Exterior Masonry
- Foundations
- Elevator Pits
- Interior Masonry
- Concrete Flooring
- Swimming Pools
- Plywood Floors and Decks

PHYSICAL FORM

MoxyEpoxy+ is a heavy-bodied, organic, solvent-free, odorless, non-flammable, relatively non-toxic two-part epoxy that is packaged ready to use in two equal component packages marked component A and component B. These components are blended together just prior to use in equal portions. Colors available are standard white and gray.

PROTECTIVE COATING

- Bridges
- Concrete Slabs
- Highway Barriers
- Sewer Treatment Tanks
- Manholes
- Stucco
- Chemical Containment Area

USE

Formulated for on-site, two-coat spray or roller application. MoxyEpoxy+ forms a positive, high-quality, integral, protective barrier against mass water penetration. When minimum down time, high pressure resistance, coating strength and longevity are major factors in choosing coating suitability, MoxyEpoxy+ can be specified for use on all types of damp interior or exterior, above or below grade masonry surfaces including concrete, brick, various types of masonry block, stucco, adobe, cast-stone, or sandstone. Although the resulting finish may be installed as its own opaque decorative accent coat, MoxyEpoxy+ can also be installed as a masonry primer for a wide variety of coatings and finishes. Due to its exceptional durability, non-lift characteristics, high alkali-chemical and water resistance. Other coatings will have no effect, and will bond tenaciously to the prime coat of MoxyEpoxy+ is ideal as a multi-purpose material for reno-ovation of old buildings or other edifices.

PATCHING/RESURFACING

- Crack Filling
- Old Foundations
- Floor Resurfacing
- Floor Cove
- Seawalls

COVERAGE

This chart assumes the masonry to be in good general condition. Old masonry, however, often becomes more porous after long exposure and weathering. Steam cleaning, sandblasting, and acid etching will also make masonry more porous. These recommendations will have to be adjusted on the job to the condition of the masonry. When estimating coverage, allow 10% for over spray. Winds of over 15 MPH will result in further loss of material.

Lightweight Block, Cast-stone, Sandstone, Open Textured Block	50 - 100
Concrete, Concrete Block	100 - 150
Stucco	130 - 190
Clay Brick (porous)	60 - 110
Clay Brick (dense)	100 - 150
Cement Asbestos Products	75 - 100
Concrete (dense)	175 - 250
Plywood	100 - 130

PACKAGING

MoxyEpoxy+ is available in 10 gallon kits (2 five gallon pails marked A and B), 6 gallon kits, 1 gallon kits and in 55 gallon drums. Colors available include white and gray.

LIMITATIONS

This material should not be applied at temperatures below 50 degrees. Do not apply if there is a threat of rain within three (3) hours of application. MoxyEpoxy+ should not be applied over other paints or coatings.

GENERAL PRECAUTIONS

Do not mix more material than can be applied in 40 minutes @ 72 degrees. Warmer temperatures will decrease material pot life. Under no circumstance should the mixed material be tempered by adding water. Clean tools, hands, spillage or drippings immediately or it will be extremely difficult to remove.

SURFACE PREPERATION

See manufacturers general preparation and application instructions for recommendations on preparing different substrates. For new or uncoated masonry wash surface with Tri-Sodium-Phosphate to clean and open up the surface to accept the prime coat of MoxyEpoxy+. The concrete can then be neutralized with clean water. Pools need to be acid etched and neutralized before MoxyEpoxy+ can be applied.

APPLICATION

Before treating interior below grade walls it may be necessary to relieve excessive hydrostatic pressure by drilling through concrete block at the base of the wall. Once all the water has drained out of these holes, and MoxyEpoxy+ has been installed, the holes can be filled with Hydro-Epoxy Mortar (a mixture of MoxyEpoxy+, dry cement and sand). In some cases, if this is not done, MoxyEpoxy+ can be washed away before it sets and bonds. Excessive wet surfaces will result in an over thinning of MoxyEpoxy+.

MIXING

MoxyEpoxy+ is a two-component material that requires the mixing of an A and B component together. Care should be taken to mix each part in their own independent container before blending them together. Try to always mix the B component into the A component. MoxyEpoxy+ is a one to one ratio mix, it is easy to use by simply mixing equal amounts of the A and B together. We recommend mixing material with a Jiffy type mixer or power drill (not over 150 RPM) with a basket or "T" type mixing blade. Care should be taken to mix the base and the catalyst for three minutes or until the material reaches the consistency of heavy cream.

BONDING MORTAR

MoxyEpoxy+ can be combined with different Portland cement mixes to create a trowel applied smooth mortar. This material makes an excellent crack filler, leveling, or tuck pointing material for masonry joints. MoxyEpoxy+ Mortar possesses tenacious bonding qualities as thin as required.

ADVANTAGES

Resists hydrostatic pressure interior, below grade walls with stands hydrostatic pressure of over 40 PSI without leaking, exceeding Federal Specification TT-P-001411. Water resistance will effectively protect substrate and prevent the absorption of exterior moisture as tested using Wind Driven Rain Machine in accord with Federal Specification TTC-001224. Efflorescence control the passage of water through masonry units dissolves free lime and other salts including sodium, calcium or potassium, carrying them to the outer surface. The salts then crystallize to form efflorescence, an objectionable discoloration of the surface. MoxyEpoxy+ prevents the major cause of efflorescence deposits.

Alkali resistant excellent resistance to alkalis in accord with ASTM D-543.

Non-Oxidizing does not contain silicone or oxidizing ingredients such as marine oils, or vegetable oils. Will not oxidize in accord with ASTM D-822. Flexibility retains ability to flex with movement of the structure. Passes 1/8th" Mandrel test as per ASTM D-822 solvent free contains water extended resins that cure by catalytic polymerization. No unpleasant odor since there are no toxic or odorous solvents in MoxyEpoxy+ it can be used in occupied areas with no discom-fort including schools, homes, and hospitals. It is also ecologically safe and acceptable.

USDA Approved MoxyEpoxy+ is USDA Approved for use in food preparation areas. Vapor transmission does allow some vapor transmission in accords with ASTM D-1653. Perm 1.75.

High solids are 56% by volume. The high resin filler ratio gives MoxyEpoxy+ superior waterproofing properties over a prolonged period of time. Thixotropic additives allow for uniform vertical spray applications with high film builds up to 30 wet mils without sag, surface checking or mud cracking. Labor Saving Sprayed with a minimum 2/3 gallon per minute capacity pump (Graco 433 or equal). Use a minimum .019 or .021 tip and 3/8" I.D. material hoses. Cleanable may be easily cleaned with normal cleaning compounds.

Fast Dry @ 72 degrees, 50% relative humidity MoxyEpoxy+ sets to touch in one hour; dries hard in 3 hours - with a total cure in four (4) days.

Pot life mixed material will last about 45 minutes @ 72 degrees.

Shelf life MoxyEpoxy+ will last 6 months in unopened containers.