

MIRAFLEX



*Miracote Scientifically
Superior Waterproofing
Systems*

A Dynamic Systems Approach to Waterproofing & Repair

Decks

Parking Decks and Ramps
Balconies and Terraces
Roof Decks
Plaza and Podium Decks
Pedestrian Bridges and Walkways
Mezzanines and Elevated Decks
Stadiums and Arenas
Mechanical Rooms and Raised Access Floors
Under-tile and Shower Pans

WATERPROOF DECKING SYSTEMS

Systems At-A-Glance

MiraFlex II - Concrete & Plywood (Class "A" Fire Rated)

MiraFlex XL Decking System

MiraFlex MPC Park Deck

MiraFlex ME - Mechanical Equipment Room Flooring

MiraFlex FRM - Fracture Resistant Membrane

MiraFlex UTW - Under Tile Waterproofing

MiraFlex Shower Pan Waterproofing

MiraFlex Waterproof Membranes:

MiraFlex Membrane A

MiraFlex Membrane B

MiraFlex Membrane C

Ancillary Products:

CPC Hybrid Sealant (Construction Sealant)

MiraPatch LM Lath Mortar

Miracote Poly-Fabric

Miracote Poly-Fabric Ultra

MiraPrime AL

MiraPrime Aqua-Blok XL

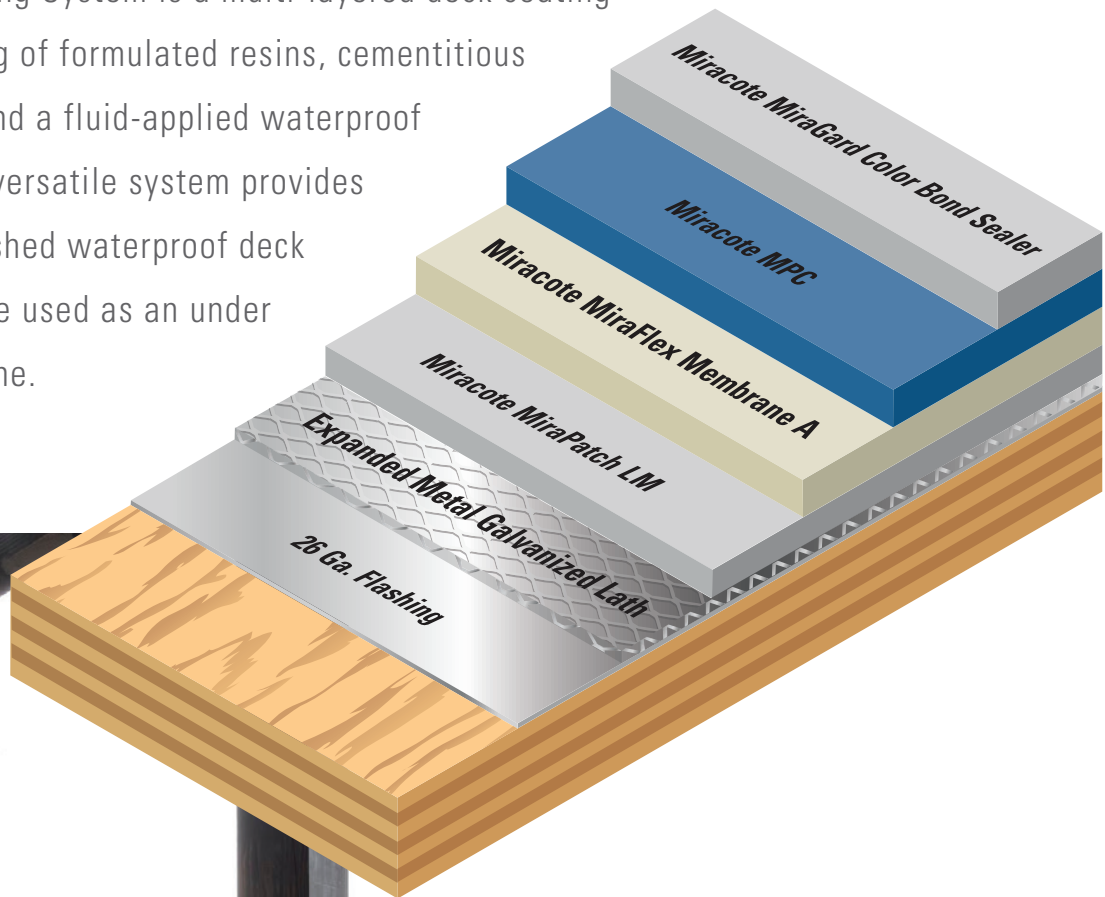
MiraPrime Aqua-Blok XLi

MiraPrime Concrete Conditioner



WATERPROOF DECKING SYSTEMS

MiraFlex II Decking System is a multi-layered deck coating system consisting of formulated resins, cementitious underlayments and a fluid-applied waterproof membrane. This versatile system provides a decorative finished waterproof deck surface, or can be used as an under tile roof membrane.



Miracote MiraFlex II (Class A Fire Rated)

WHERE TO USE:

- Waterproofs and provides finished decorative surface for use over occupied space
- Apply over new or existing concrete, magnesite, or plywood
- Also used as an under tile deck membrane
- For exterior walking decks, balconies, ramps, stairs, patios, sun decks, roof decks, observation decks, platforms, etc.

ADVANTAGES:

- One-hour fire rated over plywood (ICC ES 1714 listing)
- Monolithic, seamless protection – waterproofing membrane
- Water-based - environmentally safe, non-toxic & non-flammable
- Fabric-reinforced – provides flexural strength and crack resistance
- Excellent UV stability – won't yellow or degrade from sun
- Wide array of slip resistant textures, colors and finishes
- Lower maintenance and life cycle costs vs. other flooring types
- VOC and LEED-compliant, low odor and fast cure time
- One line item for both waterproofing and finished walking surface
- Lower installed weight per square foot than tile systems

PEDESTRAIN TRAFFIC DECK SYSTEMS

MiraFlex XL is a cementitious, fabric-reinforced, waterproofing membrane system engineered for pedestrian traffic applications. Ideal for exterior environments, the system is moisture vapor permeable and can be used on concrete or wood substrates.

MiraFlex XL (Vapor Permeable)

WHERE TO USE:

- Mixed use, residential and commercial
- Exterior and interior pedestrian traffics surfaces
- Existing sandwich membrane with topping slabs
- Unvented metal pans
- Over concrete, plywood and other substrates
- Pedestrian bridge spans, roof decks and patios
- Balconies, plaza decks and podium decks
- Walkways, breezeways and stairways
- Mechanical equipment rooms
- Waterproofing under raised access flooring systems

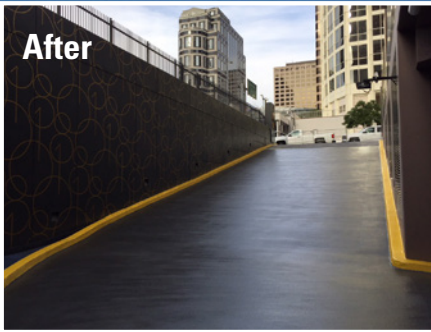
ADVANTAGES:

- Vapor permeable - allows substrate to breath without blistering
- Monolithic, seamless protection – waterproofing membrane
- Water-based - environmentally safe, non-toxic & non-flammable
- Fabric-reinforced – provides flexural strength and crack resistance
- Excellent UV stability – won't yellow or degrade from sun
- Wide array of slip resistant textures, colors and finishes
- Lower maintenance and life cycle costs vs. other flooring types
- VOC and LEED-compliant, low odor and fast cure time



VEHICULAR TRAFFIC DECK SYSTEMS

MiraFlex MPC Park Deck restores and protects concrete from water intrusion, chlorides, freeze thaw damage, carbonation and impact/abrasion of vehicular traffic. It's extremely durable, cost-effective, and "breathable," allowing moisture vapor to escape - reducing corrosion of steel reinforcing and eliminating blistering or delamination.



Miracote MPC Park Deck

WHERE TO USE:

- Concrete Restoration and Protection projects
- Waterproofing protection on new and existing parking decks
- Horizontal surfaces, columns, walls and ceilings
- Restoration and protection for stadiums and sports arenas
- Waterproofing and protection of balconies and breezeways

ADVANTAGES:

- Moisture vapor permeable - reduces potential for corrosion
- Protects against penetration of water, chlorides and carbonation
- Ideal for exterior/interior, pedestrian and vehicular traffic
- Excellent adhesion to damp concrete substrates
- Lower labor and material costs
- Reduced life cycle costs - prolongs service life of parking decks
- One product for all three coats
- No broadcasting or recovery excess sand
- Less sensitivity in adverse weather conditions
- No odor - VOC and LEED compliant
- Substantially reduced corrosion at a 95% Confidence Limit when applied with MiraPrime Aqua-Blok XL*

*In accordance with the U.S. Bureau of Reclamation M-82 Standard Protocol to Evaluate the Performance of Corrosion Mitigation.

MECHANICAL ROOM CONTAINMENT SYSTEMS

MiraFlex ME (Mechanical Equipment Room Flooring) is a multi-layered troweled application designed for use as a waterproof flooring system for application in upper level mechanical equipment or boiler rooms.

MiraFlex ME

WHERE TO USE:

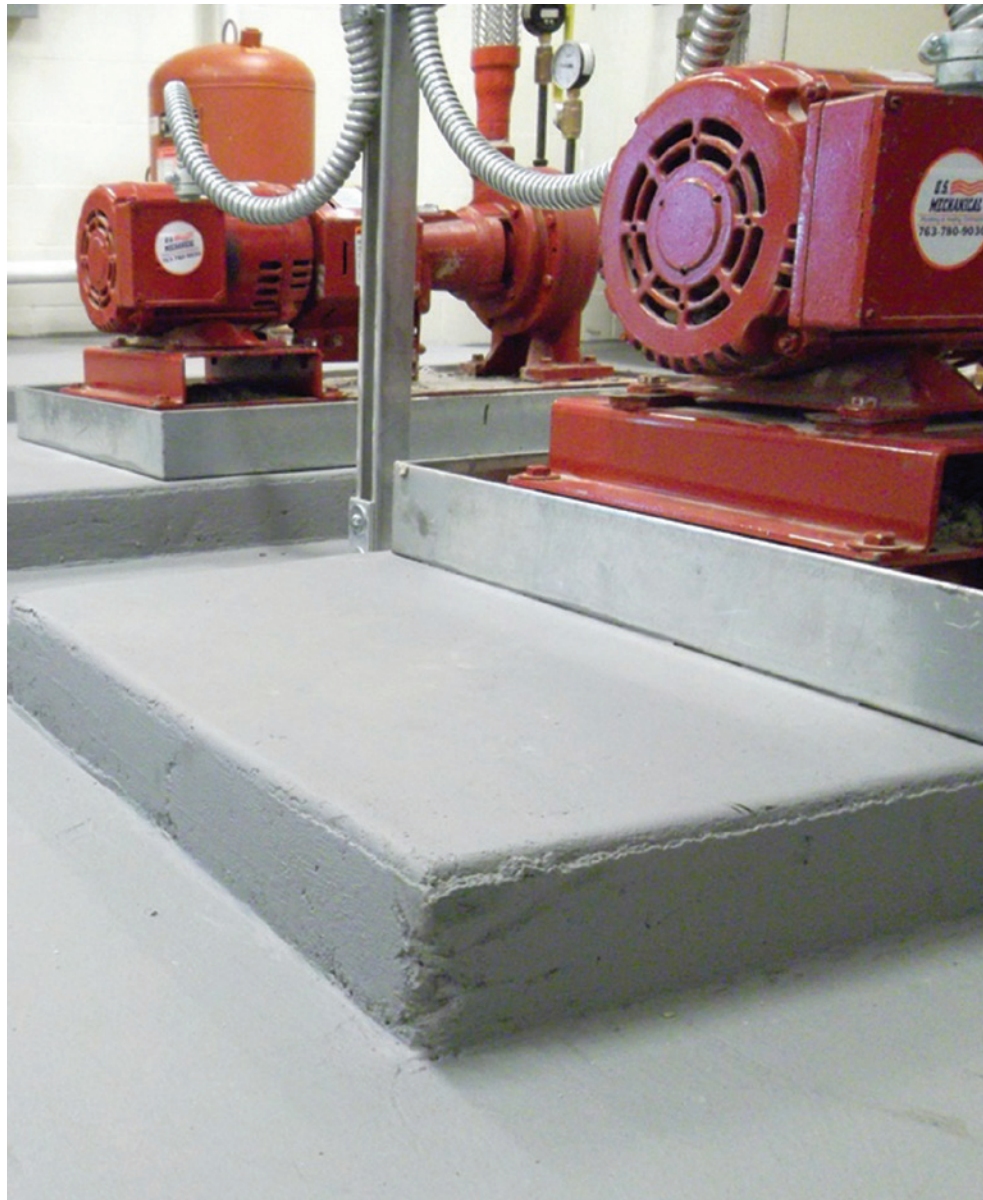
- For upper level mechanical equipment rooms, air conditioning rooms, boiler rooms, plenums and spaces subject to water leakage
- Apply over new or existing concrete or masonry surfaces
- Specifications available for application over wood or plywood

ADVANTAGES:

- Combination waterproofing and floor finish system
- Multi-layered solution forms an elastic latex waterproof membrane, an integral mesh fabric reinforced waterproof base, and a finished floor with a highly durable top coat
- Forms a monolithic, tightly adhering, molded waterproof system across floors and up bases, curbs, equipment pads and up pipe sleeves
- Water-based with no hydrocarbon solvents
- No toxic odor during application
- Non-flammable and environmentally safe

MiraFlex ME -NR

MiraFlex ME-NR (Mechanical Equipment Room Flooring - Non-Reinforced) uses the same liquid rubber latex polymers, but does not incorporate the polypropylene mesh fabric reinforcing that is part of the MiraFlex ME system.



PLAZA AND ROOF DECK SYSTEMS

Miracote FRM (Fracture-Resistant Membrane) is a waterproof, “fracture-resistant” underlayment for use under ceramic tile, quarry tile, marble and certain types of troweled composition flooring. This system can be used between slab, and as a

waterproof traffic surface over balconies, terraces, plaza and pedestrian roof decks in most climates.



MiraFlex FRM

WHERE TO USE:

- Apply over new or existing concrete, wood or metal; between slabs; or under ceramic tile, quarry tile, marble and troweled composition flooring
- Balconies, terraces, plaza and roof decks
- Indoors for computer access flooring, mechanical equipment rooms, shopping malls, commercial kitchens, etc.

ADVANTAGES:

- Provides fracture-resistant positive waterproofing and reduces reflective cracking
- Molds up onto bases, over curbs, etc
- Meets all CTI specs for waterproof membrane under tile
- Thin section - no depression of slab required
- Environmentally safe - contains no organic solvents and is VOC compliant
- IAPMO certified
- ANSI certified

WATERPROOF DECKING SYSTEMS

MiraFlex UTW is a multi-layer, fluid-applied waterproofing system for use under tile, brick, stone or pavers. A polymer emulsion modified latex membrane is reinforced with polypropylene fabric, and covered with a cementitious co-polymer protective coating.



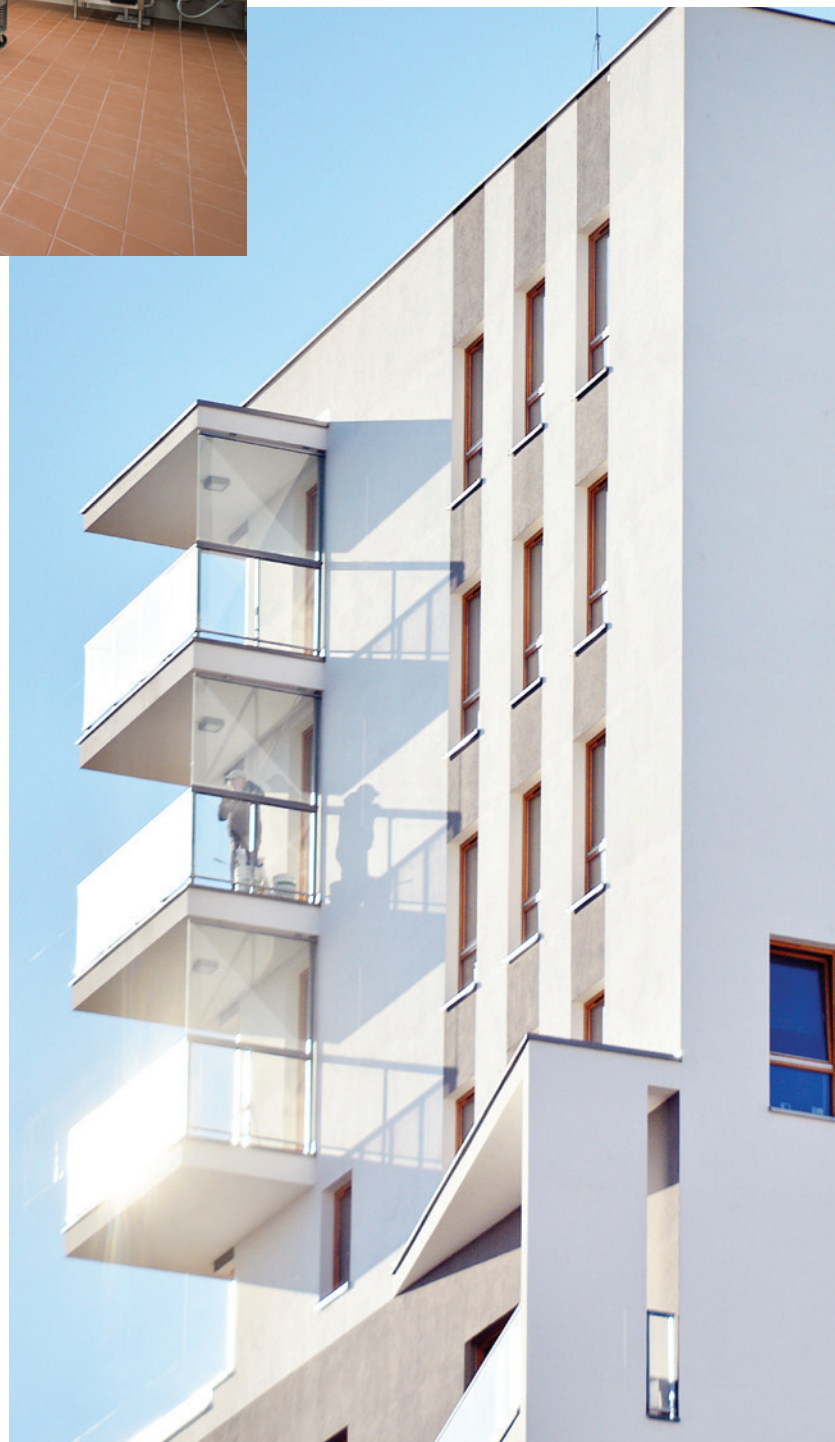
MiraFlex UTW (Under Tile Waterproofing)

WHERE TO USE:

- Apply under tile, brick, stone or pavers
- Apply over any sound substrate, new or existing
- For on grade, or above grade applications (based on project requirements)
- Tile balconies and commercial walkways
- Steam rooms, saunas and locker room facilities

ADVANTAGES:

- Three-layer system includes a cementitious underlayment; fabric reinforced elastomeric membrane; and a cementitious co-polymer protective coat
- Fluid applied membrane that conforms to irregular shapes
- Provides crack isolation
- Meets all CTI specs for waterproof membrane under tile
- Environmentally safe - contains no organic solvents and is VOC compliant
- IAPMO certified
- ANSI certified



SHOWER PAN WATERPROOFING SYSTEMS

MiraFlex Shower Pan is a multi-layer, elastomeric waterproofing system for use under tile, brick, stone or pavers. A polymer emulsion modified latex membrane is reinforced with polypropylene fabric, and covered with a cementitious co-polymer protective coating.

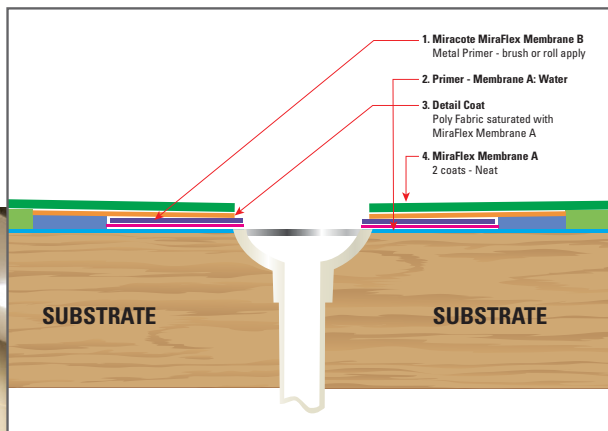
MiraFlex Shower Pan Waterproofing

WHERE TO USE:

- Apply under tile, brick, stone or pavers
- Apply over any sound substrate, new or existing
- For over occupied space and on grade applications
- Commercial shower facilities
- Multi-unit residential
- Hotel, resorts, condominiums

ADVANTAGES:

- Three-layer system includes a cementitious underlayment; fabric reinforced elastomeric membrane; and a cementitious co-polymer protective coat
- Fluid-applied membrane, with embedded fabric, that conforms to irregular shapes
- Provides crack isolation
- Meets all CTI specs for waterproof membrane under tile
- Environmentally safe - contains no organic solvents and is VOC compliant
- Low odor
- IAPMO certified
- ANSI certified



WATERPROOF MEMBRANES

MiraFlex Membrane A is a styrene butadiene rubber latex designed for use beneath tile, marble, quarry tile, below grade, between slag and under composition floors and decks. It dries to form a tough, water and vapor resistant film that is non-toxic so it is also an excellent tank liner for potable water.

MiraFlex Membrane A

- Apply under ceramic tile, marble, quarry tile, below grade, between slab and under composition floors and decks
- Apply over concrete, tile and metal
- Provides waterproofing for potable water applications by forming a tough, water and vapor resistant seamless membrane

ADVANTAGES:

- Forms a monolithic, tightly adhering, molded membrane across floors and up bases, curbs, etc.
- Reduces reflective cracking caused by substrate
- Thin section does not interfere with building elevations.
- Fluid-applied membrane is easily applied to irregular shapes, unlike sheet goods.
- Quick drying - Touch dry in 1-2 hours, fully dry in 12 hours.
- Odorless.
- Choice of colors.
- Excellent adhesion and impact resistant
- Water based latex applies by roller, trowel, spray or squeegee
- Environmentally safe, non-toxic and VOC compliant.
- IAPMO certified
- ANSI certified

MiraFlex Membrane C is a polymer-modified, highly flexible cementitious membrane for waterproofing concrete, masonry and other substrates. Good for interior and exterior applications, it can be applied above or below grade; and to horizontal, vertical or overhead surfaces.

MiraFlex Membrane C

WHERE TO USE:

- Ideal for interior and exterior stand-alone exposure

MiraFlex Membrane B is a specially formulated polymer emulsion waterproofing system designed for use over metal flashing, beneath ceramic tile, marble, quarry tile, below grade, between slab and under composition floors and decks.

MiraFlex Membrane B

WHERE TO USE:

- Copper, steel, nickel, galvanized, tin, and aluminum metal flashing
- Flanges, rail posts, rail mounts

ADVANTAGES:

- Excellent adhesion to tin, aluminum, copper, steel, nickel, and galvanized metal
- Forms a monolithic, tightly adhering, molded membrane across floors and up bases, curbs, etc.
- Environmentally safe, VOC compliant
- Reduces reflective cracking caused by substrate movement
- Thin section doesn't interfere with building elevations.
- Unlike sheet goods, fluid applied Membrane B can easily be applied to irregular shapes
- Quick drying - Touch dry in 1-2 hours, long open time for adhesion.
- Cures at cold temperature as low as 40°F (4.4°C)

ADVANTAGES:

- Permanent high flexibility - does no age harden
- Carbon dioxide barrier - prevents concrete carbonation
- Protects against de-icing salts, chlorides, sulphates
- UV resistance and stability
- Vapor permeable membrane - breathable
- Excellent resistance to abrasion, wear and impact
- Crack isolation membrane - reduces reflective cracking
- Outstanding elongation and crack-bridging properties
- Compatible with cementitious thin-set mortars
- Wide range of available colors when using white powder.
- Green technology - environment friendly, LEED-compliant
- Smooth powder blend available for finer finish
- NSF-61 Certified for use in potable water



MiraPatch LM

WHERE TO USE:

- Embedment and encapsulation of expanded metal lath
- Embedment for radiant heating elements
- Flooring underlayment over plywood and concrete
- Leveling and sloping of horizontal concrete surfaces
- Repair of concrete surface defects
- Underlayment for tile, carpet and other flooring finishes

ADVANTAGES:

- High flexural and tensile properties to resist cracking
- Excellent resilience and impact resistance
- Exhibits high bond strength characteristics
- Outstanding workability and working time
- Suitable for interior and exterior applications
- Decreases transmission of sound
- Excellent adhesion over plywood, concrete, masonry and many other substrates
- Compatible with most adhesives and other construction

MiraPrime AL

WHERE TO USE:

- Flashing

ADVANTAGES:

- Rapid hardening and cure time
- Superior adhesion to host substrate
- Outstanding primer for ferrous & non-ferrous metals
- LEED-compliant, zero VOC
- Meets USDA, FDA, OSHA standards

Miracote Poly-Fabric

- Polypropylene woven-mesh fabric
- Embed with membranes and cementitious coatings
- Adds strength & reinforces
- Reinforcement over cracks and joints
- Alkaline resistant
- Crack isolation

Miracote Poly-Fabric Ultra

- Ultra has a thinner cross section
- Easier to hide under coatings
- Polypropylene woven-mesh fabric
- Embed with membranes and cementitious coatings
- Adds strength & reinforces
- Reinforcement over cracks and joints
- Alkaline resistant
- Crack isolation

MiraPrime Conditioner - Concrete Conditioner

WHERE TO USE:

- Concrete structures affected by ASR.
- Concrete with pH lower than 10.
- Water reservoirs and containment pits.
- Polishing of concrete floor slabs.
- Underground vaults and elevator pits.
- Dams, spillways and tunnels.
- Retaining walls and basements.
- Parking structure slabs, columns and walls.
- Concrete bridge decks and sub-structures.
- Sidewalks, balconies and breezeways.
- Masonry and stone structures.

ADVANTAGES:

- Rapidly boosts the alkalinity of aged carbonated concrete.
- Accelerates and enhances the crystalline reaction process.
- Excellent penetration into carbonated concrete cracks.
- Non-toxic, low odor and environmentally safe

MiraPrime Aqua-Blok XL -

ADVANTAGES:

- Deep/fast penetration into concrete substrates 2" – 4".
- Purges/expels embedded chlorides and blocks re-entry.
- Enhances physical properties – maintains breathability.
- Significantly reduces migration of efflorescence.
- Hydrophilic moisture barrier – resists hydrostatic pressures.
- Permanent and self-healing integral waterproofing.
- Enhanced protection of reinforcing steel to corrosion
- Will not sustain mold, mildew or fungal growth.
- Non-toxic, low odor and environmentally safe.
- Cures, seals, densifies and hardens new/existing concrete.

WHERE TO USE:

- Over occupancy concrete pools, spas & water features.
- Water reservoirs and containment pits.
- Concrete slabs, walls, foundations, retaining walls & basements.
- Parking structures, sidewalks, balconies & breezeways.
- Water and wastewater treatment structures.
- Underground vaults and elevator pits.
- Dams, spillways and tunnels.
- Concrete bridge decks and sub-structures.

MiraPrime Aqua-Blok XLi (Fast Acting)

ADVANTAGES:

- Deep/fast penetration into concrete substrates 2" – 4".
- Purges/expels embedded chlorides and blocks re-entry.
- Enhances physical properties – maintains breathability.
- Significantly reduces migration of efflorescence.
- Application from positive or negative side.
- Significantly reduces moisture vapor emissivity.
- Hydrophilic moisture barrier – resists hydrostatic pressures.
- Permanent and self-healing integral waterproofing.
- Enhanced protection of reinforcing steel to corrosion
- Will not sustain mold, mildew or fungal growth.
- Non-toxic, low odor and environmentally safe.
- Cures, seals, densifies and hardens new/existing concrete.

WHERE TO USE:

- Concrete structures susceptible to, or affected by, ASR (Alkali-silica reaction)
- Over occupancy concrete pools, spas & water features.
- Water reservoirs and containment pits.
- Concrete slabs, walls, foundations, retaining walls & basements.
- Parking structures, sidewalks, balconies & breezeways.
- Water and wastewater treatment structures.
- Underground vaults and elevator pits.
- Dams, spillways and tunnels.
- Concrete bridge decks and sub-structures.

CPC Hybrid Sealant

- Solvent free
- Low VOC
- Non-toxic, no odor
- Non-flammable
- High bond strength
- Highly weather resistant



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