MIRACOTE Scientifically Superior Waterproofing Systems

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

A Dynamic Systems Approach to Waterproofing & Repair
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

Specify with confidence!
Have one of our experts review your specs to ensure product compatibility and integrity.
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
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 traffic 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

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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*

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.

VEHICULAR TRAFFIC DECK SYSTEMS

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

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MiraFlex FRM
WHERE TO USE:
• Apply over new or existing concrete, wood or metal; between slabs; or under ceramic tile, quarry tile, marble and certain types of 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

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 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
MiraFlex Shower Pan is a multi-layer, elastometric 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 elastometric 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 movement
- 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 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)

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

**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
ANCILLARY PRODUCTS

MiraPrime Conditioner - Concrete Conditioner
WHERE TO USE:
• Concrete structures affected by ASR.
• Concrete with pH lower than 10.
• 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 - (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.
• 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.

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

Miracote Poly-Fabric
• Polypropylene woven-mesh fabric
• Embed with membranes and cementitious coatings
• Adds strength & reinforces
• Reinforcement over cracks and joints
• Crack isolation
ADVANTAGES:
• 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 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

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

MiraPrime Aqua-Blok XLi
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.
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