

# Conpro Shield MX

**Spray, roller or brush applied, penetrating aqueous alkoxysiloxane water repellent.**

**WHERE TO USE**  
**Vertical and horizontal concrete, concrete block, concrete pavers, natural stone, stucco and brick.**

## PERFORMANCE CHARACTERISTICS

### Maximum protection

- Passes ASTM E514.  
100% no leakage.  
94% reduction in water absorption.

### Long term protection

- Advanced silicone technology.

### Environmental protection

- Mitigates carbonation.  
Effective chloride ion screen.  
UV stable.  
Unaffected by microbiological activity.

### Breathability

- Water vapor permeable.

### Clear result

- Will not darken or alter light reflection of substrate when properly applied to a dry and untreated surface.

### Cold weather application

- Apply to 40°F or above.  
With 1-hour cure will tolerate sub-freezing temperatures with no affect.  
Substrate should be frost free.

### Increases durability

- Repels water from penetrating substrate. Most damage to concrete, masonry and stone is due to water entry.

### Environmentally friendly

- Water based technology, low odor, easy handling and clean up.

### VOC compliant

- Meets all current (2006) VOC emission standards for waterproofing, concrete/masonry sealer.

## SURFACE PREPARATION

- Substrate must be clean and free of loose debris, oils, paints, previously applied water repellents or any substance that can interfere with penetration.
- Substrate must be dry and frost free. Moisture in the substrate will reduce penetration
- Repoint loose deteriorating mortar; fill all voids and cracks in mortar.
- Inspect flashing around all openings, caulking, expansion joints and roof components to determine condition and for evidence of water entry. Material will not prevent water entry through cracks or voids in substrate or other building components.

## PRIMING

- Priming is not necessary.

## MIXING

- Shake or stir until homogenous.

## APPLICATION

- Always apply to a test area to ensure *Conpro Shield MX* will not affect the appearance of the surface due to reaction with previously applied materials or by drawing surface contaminants into the substrate.
- For best results apply with a low pressure sprayer using a fan tip.
- For vertical applications begin at the bottom of the wall and work up generating a 4 - 6 inch rundown.
- Work to natural break points in the structure.
- Always keep a wet edge.
- For horizontal applications begin at one edge and work backwards towards the opposite edge.
- Apply enough material to saturate the surface, but do not allow material to pond. Brush out ponded material before surrounding area dries.
- Single coat coverage is suitable for most applications.
- Multiple applications of Shield MX can be applied either wet on wet or to a cured surface.

## CURING

- Protect from moisture and traffic for 8 hours.  
Material is fully cured in 14 days.

## CLEAN UP

- Clean tools, equipment and adjacent areas with water immediately after application. Clean glass, metal, vinyl, aluminum with glass cleaner before material can cure. Cured material can be removed mechanically.

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## COVERAGE/YIELD

- Coverage will vary depending upon porosity of substrate.
- Concrete – 125 - 175 ft.<sup>2</sup>/gal.
- Concrete block – 40 - 150 ft.<sup>2</sup>/gal.
- Brick – 100 - 175 ft.<sup>2</sup>/gal.

## PRODUCT HANDLING

### Packaging

- 1, 5 and 55 gallon plastic containers.

### Shelf Life

- 18 months in unopened containers. Materials must be agitated thoroughly before each use to ensure homogeneity.

### Storage

- Transport and store in cool, clean, dry conditions in unopened containers.

### Do Not Freeze -

**This will destroy the Shield MX.**

## DISPOSAL

- Dispose of material in accordance with local, state or federal regulations.

## LIMITATIONS

- Ensure adequate air movement to dissipate fumes during application and curing.
- Use safety glasses and gloves during application.
- Do not dilute.
- Do not spray in high winds.
- Always apply a sample to determine suitability to substrate.
- Does not prevent water entry through cracks, penetrations or open joints.
- Not applicable for below-grade waterproofing.

## HEALTH AND SAFETY

- Product is alkaline.
- Do not ingest.
- Avoid breathing mist.
- Avoid contact with skin and eyes.
- Ensure adequate ventilation during application and curing.
- Refer to Material Safety Data Sheet (MSDS) for additional information.

## FIRST AID

- If swallowed contact a medical professional immediately. Do not induce vomiting.
- In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional. For respiratory problems, remove person to fresh air. If respiratory difficulty persists, contact a medical professional.

## TECHNICAL DATA

Physical state and appearance		Milky white liquid
pH		9
Odor		Slight
Solids by weight		11%
Solvent system		Aqueous
Volatile organic content – VOC	ASTM D3960	<50 gms./liter
Active ingredients		Siloxane based
Density of liquid coatings	ASTM D1475	8.4 lbs./gal.
Accelerated weathering – QUV	ASTM G154	2000 hours UV-B cycled with condensation – no effect
Accelerated weathering – carbon-arc	ASTM G152	Pass – no effect
Water penetration and leakage	ASTM E514	100% reduction, no staining or leakage
Water vapor transmission	ASTM E96	100%
Resistance to salt spray	ASTM B117	Pass – no effect
Moisture absorption	ASTM C140	Reduction compared to control 94%
<b>NCHRP 244 Series II</b>		
Reduction in chloride ion intrusion		82%
Water vapor transmission		77% – compared to untreated control

### FOR PROFESSIONAL USE ONLY

Conproco Corp. warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. June 2006.

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