



# FX-460

## Breathable Masonry Coating System

### DESCRIPTION:

**FX-460 Breathable Masonry Coating System** is a protective coating system that provides excellent protection to concrete and mineral substrates against attack from water, UV, chemical and microbial attack.

**FX-460** prevents damage from wetting/drying freeze/thaw cycles, and de-icing salts.

The coating system consists of **FX-460 Primer** and **FX-460 Top Coat**. The **FX-460 System** penetrates, seals and repels liquid water, but passes water vapor - "The System that Breathes". **FX-460 System** provides a hydrophobic "water-shedding" effect to masonry surfaces. **FX-460** is manufactured from the most durable exterior grade silicone. The **FX-460 Top Coat** is available in white, gray, and other colors as special order.

### ADVANTAGES:

- \* Protects concrete and masonry from the damaging effects of water and chloride intrusion (de-icing chemicals), and many atmospheric pollutants.
- \* Excellent water repellency - reduces efflorescence, frost damage, and fungus growth.
- \* Not a vapor barrier—permits water vapor to pass and concrete to breathe. This reduces cracking, spalling, and coating from bubbling.
- \* Has built in penetrating waterproofing properties for masonry.
- \* Cured, it provides a hydrophobic effect to protect from corrosion, when used on steel reinforced concrete.
- \* Excellent UV resistance and good color retention.
- \* Facilitates removal of dirt and graffiti, resistant to solvent based cleaners.
- \* VOC compliant to all current regulations.
- \* Water based—easy soap and water cleanup.

### WHERE TO USE:

**FX-460** can be used to coat all concrete and masonry surfaces, bridge abutments, pilings, parapet walls, masonry work, and masonry mortar.

### PHYSICAL PROPERTIES:

<b>Primer</b>	
V.O.C.	100 Grams/Liter .83 lbs / gallon
Dry Time	To recoat 30 minutes
<b>Top Coat</b>	
Color	White or Gray (Other colors available as special order).
V.O.C.	60 Grams/Liter .5lbs / gallon
Solids	48% by volume
Dry Time	To touch 30 minutes To recoat 2 hours
Full Cure	36 hours @ 75°F
Flash Point	>150°F
<b>FX-460 System</b>	
Reduction of water absorption into concrete (ASTM C 642)	Exceeds 88% reduction when used with <b>FX-460 Primer</b>
Water vapor transmission	75% +

### SURFACE PREPARATION:

**Bare Concrete** - Surfaces must be clean and sound. While some moisture present in the concrete or masonry will not affect the performance of **FX-460**, the drier the surface, the deeper the penetration.

**Previously Coated Surfaces** - Remove all oil, grease, loose paint, mill scale, dirt, foreign matter, rust, mold, mildew, efflorescence and sealers to assure sound bonding to the tightly adhered coatings. Glossy surfaces must be mechanically abraded prior to over coating. Sweep blasting or washing with an abrasive cleanser will accomplish this in one operation. Another alternative is to wash thoroughly and mechanically abrade by sanding. Spot prime any bare concrete areas with **FX-460 Primer**. Check for compatibility by applying a test patch of the recommended coating system, as noted below, covering at least 2–3 square feet. Allow to dry one week before testing adhesion per ASTM D7234 - 05 Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers. If the coating system is incompatible, complete removal is required.

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#### APPLICATION:

**Bare Concrete** - Apply **FX-460 Primer** at the appropriate rate. **FX-460 Primer** and **FX-460 Top Coat** may be applied by brush, roller or spray. Stir **FX-460 Top Coat** well before use. Apply **FX-460 Top Coat** after **FX-460 Primer** has dried for 30 minutes.

**Previously Coated Surfaces** - Spot prime any areas left bare from surface prep with **FX-460 Primer**. Apply two coats of **FX-460 Top Coat** following instructions above. Allow a minimum of 2 hours and maximum of 14 days for recoating with self. For best results on most masonry surfaces, two (2) top coats are recommended.

#### COVERAGE:

**FX-460 Primer** is applied at 125 square feet per gallon to meet NY DOT specifications. Other applications allow for a spread rate of 250-350 square feet per gallon, depending upon concrete or masonry porosity. **FX-460 Top Coat** is applied at approximately 200 to 300 square feet/gallon, depending upon concrete or masonry porosity.

#### LIMITATIONS:

Do not apply on or through standing water. Material is not intended to seal moving cracks from moisture intrusion. Do not apply **FX-460 Primer** or **FX-460 Top Coat** at surface temperatures below 45°F, or when surface temperature is expected to fall below 45°F within four (4) hours of application.

#### SHELF LIFE:

Primer: 1 year    Top Coat: 2 years

#### PACKAGING:

**FX-460 Top Coat** is available in one (1) gallon and five (5) gallon pails. **FX-460 Primer** is available in 1/2 gallon cans, 1 gallon cans and five gallon pails.

#### CAUTION:

Contains organic hydrocarbons. Avoid inhalation of vapor. In case of eye contact, immediately flush eyes with plenty of water for at least fifteen (15) minutes. Call a physician in case of severe skin or eye irritation. Wash with soap and water.