



# FX-262 Repair Mortar

## DESCRIPTION:

**FX-262 Repair Mortar** is a shrinkage-compensated, fiber-reinforced cement mortar that contains a migratory corrosion inhibitor. **FX-262** contains **FX-32 Silica Fume** which improves the properties and offers high strength and superior performance for structural concrete repair. **FX-262** is specially designed for concrete or masonry substrates and can be applied vertically or overhead by low-pressure spraying and hand troweling.

## WHERE TO USE:

- For use on vertical and overhead repair of concrete and masonry.
- In structures such as bridges, parking garages and tunnels
- Piers, sea walls and other marine structures
- Manhole, wet well, sewer and lift station repairs

## ADVANTAGES:

- One component, quality controlled for uniform results.
- Easy to use – requires only the addition of potable water for mixing.
- No additional bonding agent required.
- Sprayable with low waste – virtually no rebound.
- High early and ultimate compressive, flexural and bond strengths.
- Silica fume formulation for a denser matrix and extremely low permeability.
- Migratory corrosion inhibitor.

## PACKAGING

**FX-262 Repair Mortar** is supplied in 55 lb. moisture-resistant bags which yield approximately 0.45 sq. ft. of mortar. This will cover approximately 5.4 sq. ft. at a 1" thickness before waste and rebound.

## PHYSICAL PROPERTIES:

Unit Weight	135 lb./ft. (2.275 kg/m)
Working Time	30–45 minutes
Set Times (hr/min)	Initial Set - 4:00
ASTM C 266	Final Set - 6:00

	1 DAY PSI (MPa)	7 DAY PSI (MPa)	28 DAY PSI (MPa)
Slant Shear Bond Strength (ASTM C 882, Modified)	1,000 (6.9)	1,250 (8.62)	1,700 (11.72)
Drying Shrinkage at 28 days (ASTM C 157, Modified)			0.09%
Splitting Tensile Strength (ASTM C 496)	400 (2.7)	500 (3.4)	700 (4.8)
Flexural Strength (ASTM C 348)	800 (5.5)	900 (6.2)	1000 (6.9)
Compressive Strength (ASTM C 109)	4000 (41.3)	7500 (51.7)	8500 (58.6)
Salt Scaling Resistance, 50 Cycles (ASTM C 672)		None	
Ability to Resist Chloride Ion Penetration (ASTM C1202)			<400 coulombs

## SURFACE PREPARATION:

**Concrete:** Perform surface preparation in compliance with ICRI Technical Guideline No. 03730 "Guide for Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion". Remove all unsound or delaminated concrete providing a minimum of 1/4" (6 mm) substrate profile and 3/4" (20 mm) clearance behind corroded reinforcing steel. The perimeter of the area to be patched should sawcut to a minimum depth of 1/4" (6 mm) to prevent featheredges. After concrete removal and prior to placement, mechanically abrade the concrete surface to remove all bond-inhibiting materials from the concrete substrate and to provide additional mechanical bond. Presoak the prepared concrete surface to provide a saturated, surface dry (SSD) condition.

**Corroded Reinforcing Steel:** Remove all oxidation and scale from the exposed reinforcing steel in accordance with ICRI Technical Guideline No. 03730 "Guide to Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion". For additional protection from future corrosion, coat the prepared reinforcing steel with **FX-408** Zinc Rich Primer.

(continued on back)

## MIXING:

**Trowel Application:** Add 0.75 gal (3 quarts) potable water into the mixing container, start mixer and slowly charge with 55lb bag of **FX-262 Repair Mortar**. Mechanically mix using a mortar mixer of an appropriate size. Mix for 3 to 5 minutes until a homogeneous consistency is achieved. Allow mix to sit for additional 2–3 minutes, add up to 0.25 gal (1 quart) additional water in small increments while mixing to obtain suitable consistency for ambient conditions. For application depths in excess of 2 inches, up to 30 pounds of 3/8" clean, saturated surface dry pea gravel may be added per 55 pound bag of **FX-262**.

**Spray Application:** Add 1.00 gal potable water into the mixing container, start mixer and charge with 55 lb bag of **FX-262 Repair Mortar**. Mechanically mix using a mortar mixer of an appropriate size. Mix for 3 to 5 minutes until a homogeneous consistency is achieved. Up to 6 oz additional water may be added for additional fluidity. Apply immediately.

## APPLICATION:

For spray applications, contact Fox representative for equipment recommendations. Remove all excess water from the saturated substrate and apply while taking proper consideration for compaction around reinforcing steel. If applying by hand, substrate surface shall be soaked with clean water to provide a saturated surface dry (SSD) condition. **FX-262 Repair Mortar** must be placed before the bond coat dries. When applying with multiple lifts, scratch the preliminary lift before initial set. Apply the next lift after the preliminary lift has reached final set. If the succeeding lift is not to be immediately placed, keep the surface continually moist. Cut-off or level as required matching the original concrete elevation. Finish the final surface as required.

### Application Thickness:

Vertical	3/8 to 2" (10 to 50 mm) per lift
Overhead	3/8 to 1 1/2" (10 to 40 mm) per lift

## CURING:

Damp curing or use of a curing compound such as **FX-15**, that meets the ASTM C-309 standard, may be necessary to prevent rapid drying of **FX-262**. Curing compounds may need to be removed prior to coating. For manhole applications, replace manhole cover as soon as mortar application is complete.

## LIMITATIONS:

Minimum application thickness is 3/8" (10 mm). Do not mix partial bags. Minimum ambient and surface temperatures should be 45 °F (7 °C) and rising at the time of application.

## STORAGE AND SHELF LIFE:

Unopened bags have a shelf life of 18 months when stored under cover in dry conditions between 45 and 90°F (7 and 32°C).

## CAUTION:

**WARNING! CONTAINS FREE SILICA & PORTLAND CEMENT. DO NOT BREATHE DUST.** May cause delayed lung injury (silicosis). Follow O.S.H.A. safety and health standards for crystalline silica (quartz). Cement powder or freshly-mixed concrete, grout or mortar may cause skin injury. Avoid contact with skin and wash exposed skin areas promptly with water. If any cement powder or mixture gets into the eyes, rinse immediately and repeatedly with water and get prompt medical attention.