



FX-253

Trowel Grade Fiber Reinforced Polymer Mortar

DESCRIPTION:

FX-253 Trowel Grade Fiber Reinforced Polymer Mortar is a two component, fiber reinforced trowelable patching mortar designed for overhead and vertical use. **FX-253** is ready to use, with only the addition of polymer liquid which activates the hybrid modified cement. **FX-253** has a special blend of proprietary polymers which produce zero shrinkage, with excellent bonding properties necessary for structural repairs Recommended application temperature is 40°F (4.4 C) and above.

ADVANTAGES:

- Excellent bond to clean masonry surfaces
- Can be applied from 1/8" min. to 1-1/2" max thickness. When thickness exceeds 1-1/2 inches, up to 15 lbs (6.8 Kilo) of dry 3/8" coarse aggregate may be added to a unit.
- Consistency of the material is controlled by the amount of polymer liquid added.
- Not a vapor barrier
- Extremely good abrasion resistance, with exceptionally low absorption

WHERE TO USE:

Patching mortar for: broken or spalled concrete, pavements, curbs, beams, underneath concrete bridges, repointing mortar and stucco. Overhead and vertical application - ideal for setting beds on uneven surfaces where good gap filling properties are essential. Most ideal for setting brick pavers and tiles outdoors and indoors.

PHYSICAL PROPERTIES:

Color	Gray	
Working Time	@ 72°F(22.2 C) – 15 minutes	
Finishing Time	20 minutes	
Compressive Strength		
ASTM C 109		
2 hours	1,500 psi	10.3 MPa
4 hours	2,500 psi	17.2 MPa
3 days	5,000 psi	34.5 MPa
28 days	6,500 psi	44.8 MPa
Flexural Strength		
ASTM C 293		
28 days	700 psi	4.8 MPa
Tensile Strength		
ASTM C 190		
28 days	475 psi	3.3 MPa
Bond Strength	350 psi	2.4 MPa
N.Y. D.O.T. Method 701-13F		
Bond Strength-Slant Shear		
ASTM C 882 (Modified)	2,000 psi	13.8 MPa
Shrinkage 28 days	0	

SURFACE PREPARATION:

Remove all dirt, grease, oil, laitance and curing compounds from concrete, mortar and stone by waterblasting or mechanical roughening.

MIXING:

Pour 3/4 gallon (2.8 L) of polymer liquid in pail or mortar mixer. Mix with a heavy duty slow speed drill and paddle, while adding **FX-253 Mortar** powder slowly to avoid lumps. (Do not over mix, three minutes is sufficient). If a more plastic consistency is required, add additional acrylic latex to mix.

APPLICATION:

Masonry surfaces or other absorbent surfaces should be dampened to prevent moisture loss from **FX-253 Mortar** into hardened masonry. For outdoor use to improve bond, apply **FX-752 Bonding Agent**. For indoor use, apply **FX-336 Rewettable Adhesion Promoter**.

Trowel **FX-253** in prepared area and allow mortar to stiffen, then produce desired finish by using float or rubber gloves, forcing mortar in voids. If steel trowel finish is required, wet trowel with water. Protect from wind and heat for the first 24 hours.

LIMITATIONS:

Protect polymer liquid from freezing; if frozen, discard. Store in cool, dry place. Lowest application temperature is 40°F (4.4 C) and rising at the time of application. Material should be stored at temperature of 40°F (4.4 C) or higher. For first 24 hours, protect from oil, acids and alkalis.

PACKAGING:

TWO PART UNIT

Part A is an acrylic latex, packaged in a 1 gallon plastic jug. (8.3 lbs.) Part B is a blend of special aggregates and cements packaged in a multi-wall bag. (45 lbs. polyethylene lined bags) Total Weight: – 53.3 lbs. 24.20 Kilo

YIELD:

Approximately 0.41 cubic feet 11.6 L

SHELF LIFE:

6 months

(continued on back)

CAUTION:

FX-253 contains portland cement and silica sand. Cement powder or freshly mixed concrete, grout or mortar may cause skin injury. Avoid contact with skin; wash exposed areas promptly with water. Avoid breathing dust when handling and mixing. Cleanliness is required. In case of skin contact, wash thoroughly with water. If contact with eye is made, flush with water and consult physician. Always wear eye protection when working materials on vertical or overhead surfaces.