



# FX-229 Non-Metallic Non-Shrink Grout

## DESCRIPTION:

**FX-229 Non-Metallic Non-Shrink Grout** is a portland cement based grout that meets ASTM C1107 Grade A Pre-Hardening Volume adjusting grout. **FX-229** provides good flowability, durability, good bond and no shrinkage. It is highly resistant to salt water and de-icing chemicals.

## ADVANTAGES:

- **FX-229** is ready to use. Just mix with potable water to the desired consistency.
- **FX-229** offers good economy with excellent physical properties.
- **FX-229** is recommended for floor overlays where structural properties are required to provide excellent abrasion resistant characteristics and high early compressive strengths with no shrinkage.

## PHYSICAL PROPERTIES

.85 gallons water per bag

Stiff consistency

24 hours	4000 psi	27.6 MPa
7 days	6000 psi	41.4 MPa
28 days	8000 psi	55.2 MPa

1.15 gallons water per bag

Fluid consistency (30 sec Flow Cone)

24 hours	3,500 psi	24.1 MPa
7 days	5,500 psi	37.9 MPa
28 days	7,000 psi	48.3 MPa

Expansion + 0.05% 7 days, air cured

Corps of Engineers CRD-C621

## SURFACE PREPERARATION:

All surfaces in contact with **FX-229** shall be free of oil, grease, laitance and other contaminants. Concrete must be clean, sound and roughened to ensure a good bond. Soak concrete surface for 8 to 24 hours prior to application with liberal quantities of potable water, leaving the concrete saturated and free of standing water. All deteriorated areas should be sandblasted or chipped to a clean, sound concrete surface.

## APPLICATION:

Mix each 55 pound (25 kilo) bag of **FX-229** With up to 1.15 gal lons (145 fluid oz.) of potable water. Lower water content will make fro less fluid higher strength grout Depending on the amount of water used **FX-229** may be dry packed, poured or pumped into place

Mix for 2 to 4 minutes, until mixture is uniform. Place imme diately. Working time is approximately 30 minutes at 73°F (23°C). After **FX-229 Grout** has been placed, it should receive wet burlap curing or some other suitable curing method for at least 24 hours. **FX-229** may be put in service immediately after the required grout strength has been reached.

## COVERAGE:

Each 55 lb. (25 Kilo) bag will yield approximately .5 cubic feet when mixed with 145 oz. (4.3 L) of water.

## SET TIME:

Initial set will be approximately 2.0 hours at 70°F (21°C) permit- ting adequate time for placement, and strapping if necessary.

To achieve best results, initial mix temperature of **FX-229 Grout** should be in the range of 55°F (12.8°C) to 80°F (26.7°C). When ambient temperatures are below 50°F (10.0°C), use warm water to mix. Use cold water to mix when ambient temperatures exceed 90°F.

## LIMITATIONS:

**FX-229** should not be used at ambient temperatures below 40°F (4.4°C).

## CAUTION:

**WARNING!** Contains Portland Cement and Silica. Avoid breathing dust. Contact with fresh Portland Cement, grout or concrete may cause burns. In case of contact, flush eyes with plenty of water for at least 15 minutes and get prompt medical attention; wash skin thoroughly with soap and water. Wear protective clothing to avoid contact with concrete.

FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN. 11/2006