



FX-225

Non-Shrink Non-Metallic Underwater Grout

DESCRIPTION:

FX-225 Non-Shrink Non-Metallic Underwater Grout has been specifically formulated to be used for underwater concrete repair where exceptional durability, complete correction of plastic and hardened shrinkage and good bond are essential. **FX-225** is a blend of portland cement, aggregates, corrosion inhibitors and special polymers. **FX-225** when mixed with water forms a cohesive non segregating material which is capable of being poured or pumped through water.

SPEC. COMPLIANCE:

Corps of Engineers CRD-C79, CRD-C 227, CRD-C 621, CRD-C 226 & ASTM C 1107 Grade A, Pre-Hardening, Grade B Post-Hardening, Grade C Combination, Volume Adjusting Grout.

WHERE TO USE:

Marine restoration, where non-segregating, high strength non shrink grout or concrete is needed.

ADVANTAGES:

FX-225 is ready-to-use; just add water and mix to the desired consistency. Can be placed in wet or dry environments. **FX-225** can be extended up to approximately 50% by weight with clean coarse aggregate. **FX-225** will maintain its fluidity at 90°F + ambient temperatures for an hour with continued mixing.

HOW TO USE:

FX-225 mixed with 1.05 gallons of water per 55 lb. (25 kg.) bag of mix, will produce an extremely fluid, yet non-shrinking grout. Use as little water as possible, as increasing water reduces strength. For deep sections, add up to 50% by weight of clean coarse aggregate.

PHYSICAL PROPERTIES:

ASTM C 109 - Grout

<u>Consistency</u>	<u>Water/55#</u>	<u>Compressive Strength/ psi</u>	
Fluid	1.05 gal	3 days	6000
		7 days	8000

ASTM C 39 - Concrete

<u>Consistency</u>	<u>W / C Ratio</u>	<u>Compressive Strength</u>	
Pourable or	0.30 max	7 days	6000
Pumpable		28 days	7500

COVERAGE:

Each 55 lb. (25-kg.) bag will yield approximately 0.5 cubic feet (13,026 cu. cm.) of grouting mortar at a pumpable, fluid consistency. When mixing 2 bags of **FX-225** and 1 – 60 lb bag of pea gravel and ± 2 gallons of water, yield will be 1.35 cubic feet.

SET TIME:

Initial set time is approximately 3- 4 hours @ 75°F (23°C), permitting adequate time for placement and full penetration.

LIMITATIONS:

FX-225 should not be used at water temperatures below 35°F (2°C). Do not exceed 1.15 gallons of water per 55 lb. bag when mixing grout.

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.

FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN. 9/2011