



FX-70[®]

Inert Corrosion-Free System

DESCRIPTION

Severe structural deterioration caused by corrosion exists in concrete, steel and wood all over the world. The **FX-70[®] Inert Corrosion-Free System** can be utilized to restore the structural integrity and provide corrosion protection of any pile, pier, column or pole. This patented system can be used to restore structural integrity in or out of water. This complete structural restoration can be accomplished without interrupting use of the structure, regardless of location. For marine applications, costly de-watering is not necessary.

The basic **FX-70[®]** concept utilizes a permanent high strength reinforced hydro-ester UV-resistant outer surface for protection against salt water, corrosive pollutants, cycles of wetting and drying, cycles of freezing and thawing and deterioration by electrolysis.

A group of moisture insensitive products, along with the **FX-70[®]** jacket are used in various combinations to economically meet a wide range of job conditions.

FX-70[®] Protective Outer Surface

This inert corrosion-free surface is available as round or square interlocking jackets, flat sheets, seamless shells, or custom shapes. Wall thicknesses range from 1/8" to 1/2" depending on application.

PHYSICAL PROPERTIES

The **FX-70[®] FRP Shapes & Structures** shall exhibit the following physical properties:

- (a) Water Absorption 1% max.
ASTM D-570
- (b) Compressive Strength 18,000 psi min.
- (c) Ultimate Tensile Strength - Longitudinal, transverse and diagonal 15,000 psi min.
ASTM D-638
- (d) Flexural Strength - 25,000 psi min.
ASTM D-796
- (e) Flexural Modulus of Elasticity - 700,000 psi min.
ASTM D-790
- (f) Barcol Hardness (ASTM D-2583)
45 + 5
- (g) Color Gray
Federal Color Standard No.595A Table VIII-26622

High Bond to Concrete, Steel or Wood

The two component **FX-70[®] Hydro-Ester** compounds (**FX-763**, **FX-70-6**, **FX-70-9**, and **FX-498**), all bond tenaciously to wet or dry surfaces of concrete, wood, steel, and other structural materials. The water-insensitive formulation of these materials make it possible to work successfully in wet environments.

ADVANTAGES OF THE FX-70[®] SYSTEM

Application procedures utilize proven materials and chemical systems already well known in the construction industry. The **FX-70[®] Hydro-Ester** compounds are designed for field use in wet environments. High strength and bond are developed by chemical reaction.

Costly maintenance and repetitive repairs are eliminated. High structural strength combined with inert chemical properties make the **FX-70[®]** System the most practical way to reconstruct piles and prevent steady deterioration from salt water, corrosive pollutants, ice action, floating debris, marine borers, electrolysis and ordinary weathering.

Proven in Service - Ask for test results

Original laboratory testing began in 1970. Field applications began in 1971 and are performing well today. Projects range widely in geographic areas including the West Coast, Gulf Coast, East Coast, inland waterways, and overseas. Exposure conditions include tidal action, river currents, salt water, fresh water, ice action, and various pollutants.

Numerous tests have been run by government and independent laboratories covering specific applications of the **FX-70[®]** systems including: structural rebuilding of piles, restoration of deteriorating surfaces, and protection of new structures. Detailed test data on similar applications may already exist.

Contact Fox Industries to discuss your specific needs.

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