

FX-180 SUBSTRATE DENSIFIER & STABILIZER

TECH DATA

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ENVIRONMENTALLY SAFE & EFFECTIVE CURING, DENSIFYING AND STABILIZATION FOR CONCRETE, MASONRY, STONE & PLASTER

FX-180 TECHNICAL DATA SHEET

1.0 PRODUCT FX-180

2.0 MANUFACTURER Valcon Industries, LLC 1-866-311-9737 Suite 11, 6321 Porter Road, Sarasota, Florida 34240 Distributed by Valcon Industries

3.0 PRODUCT DESCRIPTION

3.1 FX-180

FX-180 is a specifically formulated and precisely manufactured product that stabilizes, densifies and restores concrete, masonry and calcareous based stone materials. FX-180 aids in the curing and hydration of new concrete, masonry and plaster materials.

4.0 MODE OF OPERATION

4.1 SURFACE PREPARATION

A. Surface Preparation Of New Cement Based Materials

The surface shall be clean and free from dirt etc. Can be applied to fresh concrete once final set has taken place and finishing operations complete.

B. Surface Preparation Of Aged Cement Based Materials

Surface shall be permeable, free of all dirt, laitance and any substance that would prevent the penetration of water.

C. Surface Preparation Of Limestone Materials

Surface shall be clean and dry.

4.2 FX-180 FUNCTIONS

The formed reaction product as a result of alkali and silicate combination ($\text{CH} + \text{SiO}_2 = \text{CSH}$) within the matrix of the cement based substrate increases density by filling the micro-pores and capillaries with water impermeable calcium silicate. FX-180 will allow the substrate breathability of moisture vapor however it will not allow carbon dioxide diffusion to enter from the surface of the treated material.

A. EXISTING SUBSTRATES

On existing substrates FX-180 will strengthen and densify cement based materials, stopping efflorescence, increasing compressive and flexural strengths as well increasing the pH to better than new levels within the treated substrate. FX-180 prepares such surfaces for re-coating or overlays by providing a bondable surface that is stable.

75-200 square feet per gallon coverage rate

B. NEW CONCRETE PLACEMENTS

On new placements the FX-180 will penetrate quickly and deeply into the surface of the new concrete materials. Once the material is placed and reached its final set and finishing

operation are complete, FX-180 will keep the moisture within the matrix and improve the curing capability of the concrete itself. **150-250 square feet per gallon coverage rate**

4.3 Precautions

Care should be taken not to allow over spray on adjacent materials. Protect all surfaces such as glass, glazed tile and aluminum from application of FX-180. Remove immediately before it dries as removal may be impossible.

4.4 Clean Up

Clean up with soap and water. Rinse tools and equipment with clean water.

4.5 Safety

FX-180 is non hazardous, environmentally and user safe. A standard dust mask is adequate protection to keep from inhaling any atomized vapors that may be airborne during application.

5.0 APPLICATION OF FX-180

1. Open container and use directly as provided.
 2. Apply by spray application (low pressure) garden type sprayer. Set nozzle at fine mist.
 3. Apply to a clean and properly prepared surface.
 4. Spray FX-180 on to the substrate wetting out the surface without ponding or puddling.
 5. All excess material must be removed and cleaned from the surface. If allowed to dry this material can be a bond breaking condition for any additional material to be placed over the treated area.
 5. Repeat this process as needed to attain the desired effect.
- Note: If surface is excessively dry, hot or windy, the surface may have to be dampened with water to avoid flash setting of the material on the surface. FX-180 is a penetrant not a surface coating. It reacts and works internally on the substrate as well as the surface.*

5.0 FAVORABLE CHARACTERISTICS

Increases compressive and flexural qualities, Improved Freeze-Thaw Resistance, Improved Abrasion Resistance, Improved Chemical Resistance, Breathable, Stops Dusting and Pitting, Paintable, Excellent U. V. Resistance, Non Toxic, Non Flammable, Odor Free, Water Based, No VOC/VOS, User Safe, Environmentally Safe, GRAS Certified Ingredients (Generally Accepted As Safe) by the FDA

6.0 PACKAGING

Available in 1 gallon jugs, 5 gallon pails, 55 gallon drums or 275 gallon totes

7.0 STORAGE & HANDLING

Do not freeze. Shelf life 3 years.

