

# AMERICAN COATINGS

## FC SERIES 100% SOLID EPOXY FLOOR SYSTEMS

A high performance finish with excellent durability.

### GENERAL FEATURES

- SELF LEVELING
- HIGH GLOSS
- 100% SOLIDS
- LOW ODOR
- CAN BE TOP COATED WITH CLEAR ABRASION RESISTANT TOP COAT OR ACRYLIC POLYURETHANE
- LOW RISK OF FLAMMABILITY
- RESISTANT TO SKYDROL

### DESCRIPTION

American FC Series Epoxy Floor Systems are two component self-leveling epoxy coatings designed for high traffic interior floors. The resulting finish exhibits a high gloss while offering years of trouble-free durability.

### USES

American FC Series Epoxy Floor Systems may be used in industrial plants, locker rooms, classrooms, clinics, garages, airport hangars, commercial kitchens or just about anywhere a durable low maintenance flooring is desired. The product package includes a penetrating primer, color coats, abrasion resistant clear topcoat, colored aggregates, and non-slip aggregates. The products can also be blended with silica sand and used for patching and smoothing of rough concrete. Following the directions for proper surface preparation and coating application will render an attractive finish that offers years or durability.

**NOTE: A VAPOR BARRIER BELOW THE FLOOR MUST BE PRESENT. See your American Coatings representative for verification if necessary.**

### PHYSICAL DATA

Finish ----- Gloss  
Color ----- Various  
Applied Over ----- Properly, prepared,  
and cured concrete, grating, or steel.  
Components ----- Two  
Cure ----- Catalytic 2:1

Volume Solids ----- 100%

**Recommended Dry Film Thickness -----15 – 20 mils**  
Primer (FP8001) ----- 5 mils  
Finish (color) ----- 5 – 10 mils  
Topcoat (FC8999) ----- 5 mils  
Number of Coats ----- Two or Three  
Application Method ----- Brush, Roll, or Squeegee

**Thinning Required**----- None

Dry Time @ 77°F and 50% RH:

Touch ----- 6 – 8 hours  
Through ----- 24 – 36 hours  
Recoat ----- 12 – 24 hours

Theoretical Coverage at: Recommended Thickness<sup>1</sup>

Primer ----- 320 sq. ft/gal @ 5 mils per coat  
Finish ----- 107 – 160 sq. ft/gal @ 10 – 15 mils per coat

### **Temperature Limit**

Immersed ----- N/R  
Atmospheric ----- 250°F

### **Miscellaneous Properties**

Shelf Life -----1 Year  
Pot Life – Mixed @ 77°F----- 45 minutes

<sup>1</sup> Coverage's are theoretical and do not make provision for losses.

### PRODUCTS

FP 8001 Concrete Penetrating Primer  
FC 8390 Tile Red \*FC 8444 Safety Yellow  
FC 8403 Light Gray G-3 \*FC 8422 Terra Cotta  
FC 8406 Medium Gray G-6 \*FC 8497 Tan  
FC 8999 Clear Anti Abrasion Topcoat  
Aggregates ( color and non slip)  
\*Made to Order Products require a minimum order

**APPLICATION INFORMATION**

**FC Series**

**SURFACE PREPARATION**

New concrete surfaces should be allowed to cure for 28 days at 70F or above. Shot Blast or Blast Trac the floor for maximum coating adhesion. Buff and sweep up any loose dust. If blasting is not feasible the surface may be prepared by chemically cleaning. First clean the concrete surface with TH100 Cleaner / Degreaser per instructions to remove any oil, grease or other surface contaminants. Rinse thoroughly with water. Next, acid etch with an application of TH950Chemical Cleaner. Allow the acid to react for 30-45 minutes on the concrete surface, then remove with a fresh water wash. Old concrete should be prepared in the same fashion but it is recommended that a test patch be prepared to ensure proper penetration and coating compatibility. Hairline cracks can be repaired if desired using American Coatings CL8 or CL10 Epoxy Adhesives. See separate data sheet.

**MIXING**

Part A should be carefully power mixed so as to minimize air entrapment. When uniform, add Part B and mix thoroughly. Mixing ratio by volume is 2 Parts A to 1 Part B. Once the product has been thoroughly catalyzed, it has a limited pot life of 45 minutes at 77 F and less at elevated temperatures. Do not mix more than can be used within the parameters of the pot life.

**APPLICATION**

After proper surface preparation and with the temperature between 60° F and 100° F., your surface is ready for coating. It is recommended that the coating be applied during the evening when the concrete is “imbibing” while its cools from the heat of the day. Apply a primer coat of FP8001 Concrete Penetrating Primer using a short hair nap roller. Allow the primer to cure as indicated in the table below. Depending on the porosity of the concrete a second coat of FP8001 may be required to prevent outgassing. Next apply the first coat of FC color coat using notched squeegees to distribute the coating evenly and a short or medium nap roller to achieve even distribution and the desired coating thickness. Minimum rolling is recommended. A spiked roller is recommended for allowing the coating to degas through the coating layer. If non-slip aggregate is needed apply during this coat. If a second coat is needed to achieve desired film thickness or if non-slip aggregate has been used in the first color coat a second coat may be applied as soon as the first coat is tack free. In instances, where maximum abrasion resistance is required a final coat of FC8999 Abrasion Resistant Clear TopCoat may be applied over the final color coat.

**NOTE**

Avoid excessive build-up or puddling especially in sharp corners. Color coats will show a more uniform color if minimum rolling is used. See table below for approximate cure schedules. Do not mix excessive amounts of material. Beware that these products have a pot life of 45 minutes at 77° F and less at elevated temperatures. Maximum film hardness will be obtained in 7 – 10 days at 77° F

**CLEAN-UP AND THINNING**

Clean all equipment immediately with TH 315.

**SAFETY INFORMATION**

FOR PROFESSIONAL USE ONLY! WARNING!

Always consult specific MSDS before use for applicable Safety Information.

NOTE: For specific chemical resistance information contact your American Coatings Representative.

**SHIPPING DATA**

Proper Shipping Name ---PLASTIC MATERIALS N.O.I.  
Hazard Class----- NONE

Flash Pt. °F SETA

PART A ----- > 200°F

PART B ----- > 200°F

UN No.-----NONE

**PACKAGING - Three gallon Kits**

Shipping WT. PART A

Two gal. In a three gal container-----21.4 lbs.

Shipping WT. PART B

Ones ----- 8.7 lbs.

Temp.	Approx. Recoat Time, Hrs			Max. Recoat Time, Hrs		
	70° F	80° F	90° F	75° F	100° F	
FP8001 PRIMER	6-8	4-6	4	72	24	
FC COLORS FC8999 TOPCOAT	16	14	12	72	24	

Cure times given for FP8001 are minimum times required before coating with FC Color product or for recoat.

DISCLAIMER

The facts stated and the recommendations and suggestions herein are based upon experiments and supplier information believed to be reliable. No guarantee is made of their accuracy, however, and American Coatings ASSUMES NO LIABILITY FOR PRODUCT FAILURE OTHER THAN TO SUPPLY REPLACEMENT MATERIAL FOR PRODUCTS SHOWN TO BE DEFECTIVE WHEN DELIVERED OR TO REFUND THE PURCHASE PRICE. Except as stated, THERE ARE NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE. AMERICAN COATINGS SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL AND CONSEQUENTIAL DAMAGES. No statement contained herein shall be construed as an inducement to infringe existing patents or as an endorsement of specific manufacturers.