



# Tyfo<sup>®</sup> FC-F

## Fire-Resistant System

### DESCRIPTION

Tyfo<sup>®</sup> FC-F is a two-part heat-resistant application made up of a specially formulated epoxy barrier coating and intumescent paint. The Tyfo<sup>®</sup> FC-F system is applied over the Tyfo<sup>®</sup> systems to provide a Class 1 Flame and Smoke Rating per ASTM E84.

### USE

Tyfo<sup>®</sup> FC-F is applied over the Tyfo<sup>®</sup> systems to provide additional fire protection to the strengthening system.

### ADVANTAGES

- ICC-ES ESR-2103 listed product
- ASTM E84 Class 1/ Class A Rated Assembly (UL Listed, Design No. BWSZ.R15357)
- For horizontal, vertical, and overhead surfaces
- Low profile
- Ambient cure
- 100% solvent-free finish

### PACKAGING & COLOR

Tyfo<sup>®</sup> FC Epoxy (A and B): Pre-measured 5-gallon units with a combined volume of 3 gallons. Tyfo<sup>®</sup> F Coat (single component): 4-gallon unit.  
Tyfo<sup>®</sup> FC Part A: off-white paste  
Tyfo<sup>®</sup> FC Part B: clear to yellow liquid  
Tyfo<sup>®</sup> F Coat: off-white paint

### EPOXY MIX RATIO

100A : 16.3B by weight  
100A : 24.3B by volume

### COVERAGE RATE

Tyfo<sup>®</sup> FC Epoxy: 50 sq. ft. per gallon at a thickness of 31 mils (1/32").  
Tyfo<sup>®</sup> F Coat: 250 sq. ft per gallon at a thickness of 6 mils per coat. Three coats required.

### SHELF LIFE

Tyfo<sup>®</sup> FC: Two years.  
Tyfo<sup>®</sup> F: One Year.  
Product must be properly stored in original, unopened containers.

### STORAGE CONDITIONS

Store at 60°F to 100°F (15°C to 38°C). Resin is susceptible to crystallization at temperatures below 50°F. If crystallized, epoxy must be reheated until clear. Avoid moisture and water contamination.

### CURE CONDITIONS

Full cure is 7 days at 73°F. Tyfo<sup>®</sup> FC is tack-free after 24 hours at 73°F. Changes in temperature and humidity may affect cure time. Cure trials should be performed where required. Protect material during cure time.

### TYPICAL APPLICATION SURFACES

Acceptable substrates include the Tyfo<sup>®</sup> systems, concrete, masonry, stucco and metal.

### CLASS 1 FLAME & SMOKE

When the application is to structural elements to satisfy code requirements for interior finish, the Tyfo<sup>®</sup> FC shall be applied at a rate of 0.225 psf (31 mils). Tyfo<sup>®</sup> F Coat shall be applied at a rate of 0.04 psf (6-7 mils) per coat. Three coats of Tyfo<sup>®</sup> F are required.

# HOW TO USE THE TYFO<sup>®</sup> FC-F SYSTEM

### INSTALLATION

The Tyfo<sup>®</sup> FC System is to be installed by FyfeFRP LLC trained and certified applicators.

### SURFACE PREPARATION

Surface should be free of excess dust, debris, oils and greases. When applied within 72 hours of FRP application, no surface preparation is required over the FRP. Otherwise, scuff sand substrate prior to application.

### APPLICATION

Tyfo<sup>®</sup> FC may be trowel or roll applied over the Tyfo<sup>®</sup> system. Allow Tyfo<sup>®</sup> FC to become tack-free. Roll or spray Tyfo<sup>®</sup> F over the Tyfo<sup>®</sup> FC. Three coats of Tyfo<sup>®</sup> F are required.

### MIXING TYFO<sup>®</sup> FC

For pre-measured units, pour the contents of component B into the component A container. Mix thoroughly with a low speed mixer at 400 to 600 RPM until uniformly blended. Ensure epoxy is transferred between the A and B buckets. After the transfer, the walls of the mixing pail shall be scraped clean into the new pail, and then mixed again to a uniform consistency. Resin may be heated to achieve desired viscosity (i.e. radiant heating, bucket heaters, etc.) DO NOT THIN. solvents will prevent proper cure.

### MIXING TYFO<sup>®</sup> F

Mix thoroughly with a low speed mixer at 400 to 600 RPM until uniformly blended to re-suspend ingredients that may have settled.

### LIMITATIONS

Recommended substrate temperature range is 50°F to 100°F (10°C to 38°C). All coating applications to be performed at a minimum of 5.4°F above the dew point. Maintain conditions for the first 48 hours of cure. Temperatures below 50°F will significantly increase the viscosity of the mixed product. Higher viscosity will reduce penetration, introduce additional air into the system, and extend the cure times beyond 48 hours. DO NOT THIN.

# CAUTION!

### CLEANUP

Collect with absorbent material. Dispose in accordance with local disposal regulations. Uncured material can be removed with approved solvent. Cured materials must be removed mechanically.

### HAZARDS

Consult Safety Data Sheets (SDS) for associated hazards. SDS will be supplied upon request. For industrial use only.

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