

AMERICAN COATINGS

FE SERIES FLEXIBLE HIGH BUILD ACID LINING SYSTEM

High build modified flexible epoxy system for heavy duty performance in acid and chlorine environments.

GENERAL FEATURES

- EXCELLENT PRODUCT FOR STORAGE TANKS, FRAC TANK SERVICE, TANKCARS AND MOBILE VESSELS IN MOST ENVIRONMENTS
- FE72, BECAUSE OF ITS LOWER WATER VAPOR TRANSMISSION RATE CAN BE USED AS A PRIMER UNDER INSULATION UP TO 135° F
- EXCELLENT FLEXIBILITY AND ADHESION TO IMPROVE RESISTANCE TO CRACKING AND DELAMINATION. PASSES 180 DEGREE BEND ¼ “ MANDREL
- EXCELLENT CHEMICAL RESISTANCE TO SODIUM HYPOCHLORITE AND ACIDS SUCH AS ACETIC AND HYDROCHLORIC*
- USER FRIENDLY APPLICATION PROPERTIES

DESCRIPTION

These products are designed as a two coat system (FE71 Primer and FE72 Finish) over steel, aluminum, galvanize and concrete. American's FE Series Flexible High Build Epoxy Coatings exhibits excellent resistance to organic acid. These products are also available in a glass flake version.

USES

American Coatings FE Series Epoxy Coatings can be applied to the interior of piping, frac tanks, mud tanks, or other vessels to protect carbon steel from a variety of chemicals.* These products can be used in select internal applications that are so severe that normal conventional lining coatings will not perform properly.

*NOTE:

See your American Coatings representative for specific chemical resistance.

PHYSICAL DATA

Components -----	Two
Mix Ratio-----	1:1
Volume Solids – Primer - FE71-----	67%
Finish-FE72-----	67%
V.O.C.-----Primer -FE71-----	2.3#/gal.
Finish – FE72 -----	2.3#/gal

Primer FE71 Red Oxide Recommended Wet Film

Thickness ----- 15 -18 mils
(10-12 dry mils dry)

Finish FE72 Blue Glass Flake Recommended Wet Film

Thickness-----15-18 mils
(10-12 mils dry)

Application Method ----- Conventional or
Airless Spray

Thinning Required-----FE71 - 5-10%TH313
FE72 - 5-10% TH770

Approx. Dry Time at 50% RH:

	FE71	FE72
Temp-----	77°F	77°F
Touch -----	1.5 hrs-----	2 hrs
Tack Free-----	5 hrs-----	5.5 hrs
Topcoat - -----	24 hrs--	24-72 hrs

*Theoretical Coverage at recommended thickness:

Primer (FE71)-----	90 -108 sq. ft/gal
Finish (FE72)-----	90-108 sq. ft/gal

Temperature Limit

Immersed -----short term-----	150°F
Atmospheric -----	180° F

Miscellaneous Properties

Shelf Life -----	1 year
Pot Life – mixed @77°F-----	4 hrs

Surface Preparation

Steel: Immersion Service:

Near White Metal Blast (SSPC-SP10) (NACE #2)

Anchor Profile: 2.5 – 3.0 mils

* Coverage's are theoretical and do not make provision for spray losses

FE71 / FE72

GENERAL CHEMICAL RESISTANCE GUIDE

FRESH WATER	EXCELLENT
WASTE WATER	EXCELLENT
SALT WATER	EXCELLENT
SALTS	EXCELLENT
GASES	EXCELLENT
SODIUM HYPOCHLORITE	EXCELLENT
ACETIC ACID	EXCELLENT
HYDROCHLORIC ACID	EXCELLENT

This table is only a general guide. For specific recommendations consult your American representative

APPLICATION INFORMATION

Do not apply at metal temperatures below 60°F or humidities above 85%.

MIXING

Mix 1 part of FE Base Part A to 1 Part B FE CAT. Thoroughly mix with pneumatic mixing equipment (jiffy power mixer). No induction time required.

SAFETY INFORMATION

WARNING! FLAMMABLE, HARMFUL IF INHALED, CAUSES IRRITATION

Keep away from heat, sparks or flame. Vapors may cause flash fire. Use with adequate ventilation. Do not breathe vapors or spray mist. Wear an appropriate, properly fitted respirator during and after applications unless air monitoring demonstrates vapor/mist levels are below applicable limits. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

SHIPPING DATA

Proper Shipping Name ----- Paint Liquid
Hazard Class----- Flammable Liquid

Flash Pt. °F SETA -----Part A - FE71- 35°F
FE72 - 80°F
Part B – FE CAT 80°F

UN No.----- 1263

CAUTION: Elevated temperature will shorten pot life

CLEAN-UP AND THINNING

Clean-up and with American Coatings TH313 Thinner.

SPRAY EQUIPMENT

FOR AIRLESS SPRAY

Pump Ratio ----- 45:1
Tip Size (in) ----- .017 - .019”
Atomization Pressure (psi) ----- 2,800 psi

PACKAGING

<u>Shipping WT.</u>	<u>PART A</u>	<u>PART B</u>
FE71	14.4 lbs	11.4 lbs
FE72	13.9 lbs	11.4 lbs

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.