

ARCHCO™ 476F EPOXY

Thick-Film Reinforced Epoxy Phenolic-Novolac Tank Lining

Description

Archco 476F Epoxy is an 85% solids, two-part, high-temperature resistant, epoxy phenolic-novolac system designed for internal tank linings and pipes. Archco 476F contains a proprietary mixture of flake and fiber reinforcement to meet API RP 652 (October 2006) guidelines as a thick-film reinforced lining.

Uses

Corrosion protection for steel tanks, vessels and internal & external pipes in a variety of industries. The coating will protect tanks, vessels and piping against crude oil, seawater, wastewater, fuels, solvents, and lubricants up to 225°F (107°C).

Features

- Excellent adhesion
- Excellent chemical resistance
- High temperature resistance (up to 250°F / 121°C)
- Cathodic disbondment resistance
- Fast cure
- Excellent abrasion and impact resistance

Application

All contaminants shall be removed from the steel surface to be coated. Oil and grease should be removed in accordance to SSPC-SP-1. Surfaces shall be free from projections, sharp edges, high points and fillets must be ground smooth including all corners. Prepare surfaces by grit blasting to a clean, near-white finish, SSPC-SP 10, NACE No. 2 or Sa 2-1/2. Appropriate angular grit shall be used to achieve a 3 to 5 mil (0.08 to 0.13 mm) anchor profile. Vacuum tank floor to remove grit prior to coating.

To spray the Archco 476F Epoxy, a single-leg, airless spray unit shall be used. Standard ancillary equipment should include a mastic gun with 29 to 35 thou tip. A wet-on-wet spray technique should be used to achieve a minimum thickness of 20 to 30 mils (508 - 762 microns). The coating thickness should be measured using a wet-film thickness gauge. The equipment settings are only guidelines and may vary based on equipment and specific application. Please refer to the spray application specifications for more complete information.



Archco™ 476F Epoxy

TECHNICAL DATA

PROPERTIES	AIRLESS - VALUE
Solids Content By Volume	85%
Base Component – unmixed @ 77°F (25°C)	
Specific Gravity	1.2
Viscosity	8,000 cP
Color	White
Hardener – unmixed @ 77°F (25°C)	
Specific Gravity	1.3
Viscosity	12,000 cP
Color	Blue
Mixed Material – mixed @ 77°F (25°C)	
Specific Gravity	1.2
Viscosity	10,000 cP
Color	Blue
Mixing Ratio (A/B) by Volume	2:1
by Weight	1:8:1
Cure Times	
Pot Life @ 77°F (25°C)	30 minutes
Pot Life @ 97°F (36°C)	5 minutes
Time to Dry @ 50°F (10°C)	12-16 hours
Time to Dry @ 77°F (25°C)	4 hours
Cure for Immersion (crude oil)	
@ 75°F (24°C)	14 hours
Theoretical Coverage	27 ft ² /50 mils/gallon (0.65 m ² /1.3 mm/L)
Thickness per coat	20 to 30 mils (508 - 762 microns)
Holiday Detection – based on min. mil.	100 volts/mil (3,936 V/mm)
Hardness (ASTM D2240-02)	Shore D 85
Adhesion to Steel	3,200 psi (22 MPa)
Application Temperature	50°F to 130°F (10°C to 54°C)
Service Temperature	35°F to 250°F (2°C to 121°C)

STORAGE: Minimum 24 months when stored in original containers @ 40°F (4°C) to 105°F (41°C). On job site where temperatures are below 50°F (10°C) product should be kept warm to allow for easy transfer into storage hoppers for warming to proper spraying temperatures.

CLEANING: Clean equipment with MEK or equivalent solvent cleaner, such as Archco 400E Thinner.

HEALTH AND SAFETY: Wear protective clothing and ensure adequate ventilation. Avoid contact with skin and eyes. See Safety Data Sheet for further information.

PACKAGING: 5 gallon (19 L), 15 gallon (57 L) kits. Other sizes available upon request.



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