

ARCHCO™ 476F EPOXY

Thick-Film Reinforced Epoxy Phenolic-Novolac Tank Lining

Description

Archco™ 476F Epoxy is a 100% 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 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 275°F (135°C).

Features

- Excellent adhesion
- Excellent chemical resistance
- High temperature resistance (up to 275°F / 135°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 plural-component, airless spray unit with a proportioning pump capable of a volume mixing ratio of 2:1 shall be used. Standard ancillary equipment should include minimum 10 gallon (38 L) hoppers, 2 each static mixers, 25 ft. (7.6 m) max x ¼" (6.4 mm) whip hose, and mastic gun with a 29 to 35 thou (0.74 - 0.89 mm) tip. Part A should be heated to 100°F-120°F (38°C - 49°C) and Part B should be heated to 90°F-110°F (32°C - 43°C). Hose bundle shall be set at 100°F-120°F (38°C - 49°C). A wet-on-wet spray technique should be used to achieve a minimum thickness of 60 to 80 mils (1524 - 2032 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 specification for more complete information.



Archco™ 476F Epoxy

TECHNICAL DATA

PROPERTIES	AIRLESS - VALUE
Solids Content By Volume	75%
Base Component — unmixed @ 77°F (25°C)	
Specific Gravity	1.3
Viscosity	6,000 cP
Colour	White
Hardener — unmixed @ 77°F (25°C)	
Specific Gravity	1.4
Viscosity	10,000 cP
Colour	Blue
Mixed Material — mixed @ 77°F (25°C)	
Specific Gravity	1.3
Viscosity	7,000 cP
Colour	Blue
Mixing Ratio (A/B) by Volume	2:1
by Weight	2:1
Cure Times	
Pot Life @ 77°F (25°C)	60 minutes
Pot Life @ 97°F (36°C)	30 minutes
Time to Dry @ 35°F (2°C)	12-16 hours
Time to Dry @ 50°F (10°C)	8-10 hours
Time to Dry @ 77°F (25°C)	2-3 hours
Cure for Immersion (crude oil)	
@ 35°F (2°C)	20 hours
@ 75°F (24°C)	8 hours
Theoretical Coverage	32 ft ² /50 mils/gallon (0.8 m ² /1.3 mm/L)
Thickness per coat	60 to 80 mils (1,524 - 2,032 microns)
Holiday Detection – based on min. thickness	125 volts/mil (4,920 V/mm)
Hardness (ASTM D2240-02)	Shore D 85
Adhesion to Steel	3,200 psi (22 MPa)
Application Temperature	4°F to 130°F (4 to 54°C)
Service Temperature	35°F to 275°F (2 to 135°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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