

ARCHCO 453HT EPOXY

Internal Epoxy Phenolic-Novolac Lining for Tanks and Pipes

Description

Archco 453HT Epoxy is a two-part, high-temperature resistant, epoxy phenolic-novolac system designed for internal tank and pipe linings requiring excellent chemical and temperature resistance over a wide range of temperatures and pressures. It is available in 88% solids or 100% solids systems for single-leg airless or plural component spray applications.

Uses

Corrosion protection for steel tanks and internal pipes in a variety of industries. The coating will protect tanks and piping against crude oil, seawater, wastewater, fuels, solvents, and lubricants up to 325°F (163°C).

Features

- Very low permeability
- Excellent adhesion
- Excellent chemical resistance
- Excellent resistance to H₂S gases
- Excellent temperature resistance (up to 325°F / 165°C)
- Excellent abrasion resistance
- Improved performance with heat soak

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 (76 - 127 microns) anchor profile. Vacuum tank floor to remove grit prior to coating.

To spray the 100% solids version of Archco 453HT Epoxy, a plural-component, airless spray unit with a proportioning pump capable of a volume mixing ration of 4:1 shall be used. Standard ancillary equipment should include minimum 10 gallon (38 liters) hoppers, 2 each static mixers, 25 ft. max x 1/4" (7.6 m x 6.3 mm) whip hose, and mastic gun with a 23 to 31 thou 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 single-leg, airless spray unit shall be used with the 88% solids version. On the single-leg airless unit, it shall be a minimum of 68:1 airless pump. When using an airless unit, the Archco 453HT should not be thinned more than 5% with Archco 400E Thinner (3 lbs /1.4 kg per 5 gal /19 liters kit).

A wet-on-wet spray technique should be used to achieve a minimum thickness of 20 mils (508 microns) DFT. 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.



