

# Enviroline 2405

## High performance and single leg application

Enviroline<sup>®</sup> 2405 is a FDA compliant, ultra-high solids, two component polycyclamine cured epoxy lining system.

Enviroline 2405 is designed to deliver outstanding high temperature and abrasion resistance in a range of environments, with rapid curing properties enabling a fast return to service.

Enviroline 2405 is suitable for application at ambient temperature for both standard airless and plural component spray equipment to allow easy installation of a full linings system in one coat.

- Specifically designed for tanker cars, hopper cars carrying potash and plastic pellets, produced water tanks, reactors and separators operating up to 302°F (150°C)
- Resists continuous immersion in a wide range of chemicals, including crude oil up to 302°F (150°C)
- Specified as a single coat application at 16-30 mils (400-750 µm) DFT, minimizes labor and material costs and eradicates intercoat adhesion issues
- Simple 2:1 mix ratio eases mixing and aids ratio accuracy in airless or plural application equipment
- Very low Volatile Organic Compound (VOC) levels of 0.37 lbs/gal (45 g/Lt) content assists in reducing solvent emissions, which aids VOC legislative compliance
- Low surface energy of 36 Dynes/cm giving enhanced cargo release properties

# Enviroline 2405 is an ideal lining for rail cars, process vessels and tanks operating at high temperatures and immersion environments

Enviroline 2405 is suitable for application to correctly prepared steel substrates in a variety of end use applications.

Enviroline 2405 offers outstanding long term chemical and corrosion protection to crude and petroleum bulk storage tanks, rail cars, process vessels, secondary containment and the internal and external lining for buried transmission pipelines.

## Outstanding productivity

Careful formulation of Enviroline 2405 has resulted in a heavy duty lining product specifically designed to provide excellent resistance to aggressive, high temperature cargoes such as crude oil and produced water up to 302°F (150°C). It is designed as a fast cure, single coat lining providing a DFT at 16-30 mils (400-750 µm), making it an ideal choice where productivity is a key driver.



## Technical information

Volume solids	98% +/- 2%
Film thickness	16-30 mils (400-750 µm) dry for process vessels, storage tanks 12-16 mils (300-400) dry for hopper cars
Application method	Airless or plural component (no heat)

## Test data

TEST TYPE	REFERENCE	DETAILS	RESULTS
Flexibility properties	ASTM D638	Maximum load Modulus Tensile stress Tensile strain	321 N 811 1,118 psi (7.71 MPa) 2.24%
Abrasion resistance	ISO4624	CS17 Wheel - 2.2 lbs (1 kg) weight	Average weight loss of 30 mg/1,000 cycles
Pull-off adhesion	ASTM D4541	Adhesion direct to blasted steel substrate	Typical value of 1,800 psi (12 MPa)
Chemical resistance	NACE TM-0185	Immersion at 302°F (150°C) crude oil + 3% saltwater	No defects
Water resistance	ISO 2812 Part 2	Deionised water to 212°F (100°C)	No defects
Dry heat resistance	ASTMD 5499 Method (A)	392°F (200°C)	No film defects, continuous exposure

The above performance data has been compiled based on present experience of in-service product performance and upon performance data obtained under laboratory test conditions. Actual performance of the product will depend upon the conditions in which the product is used.

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## Features

- FDA compliant
- No need for a primer
- Apply in a single coat
- Available in two colors
- Rapid cure

## Overall benefits

- Reduced application time
- Reduced installation costs
- Reduced stock levels
- Reduced material costs
- No intercoat adhesion issues