

Enviroline 405HT

High temperature chemical resistance

Enviroline® 405HT is an ultra high solids two component polycyclamine cured phenolic novolac epoxy lining system.

Excellent abrasion resistance aids longevity of lining system and allows high pressure wash.

- Resists high temperatures in continuous immersion for a wide range of chemicals, including crude oil, hydrocarbon water mixtures and associated equipment up to 120°C (248°F)
- Rapid cure times means storage tanks and vessels can be coated, cured and returned to immersion service within fourteen hours
- Fast return to service minimizes process disruption and reduces overall installation costs
- Specified as a single coat application minimizes labour and material costs and eradicates intercoat adhesion issues



Enviroline 405HT is an ideal lining for process vessels and tanks operating at high temperatures

Enviroline® 405HT is the ideal choice when it comes to protecting your assets against aggressive high temperature cargoes.

Protection to 120°C (284°F)

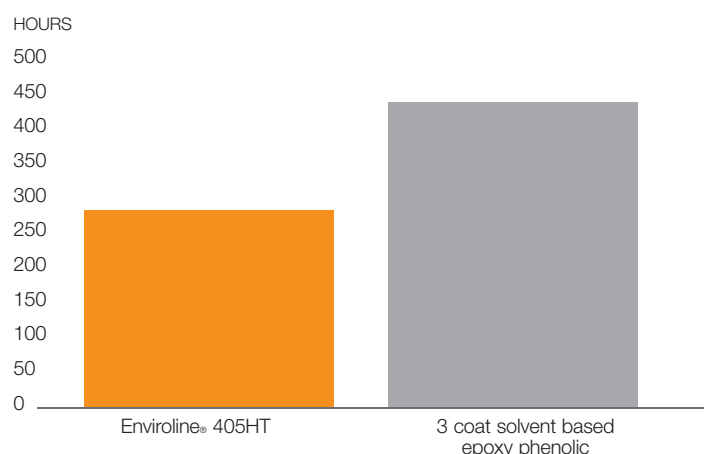
Enviroline® 405HT provides long term protection for a variety of cargoes including bio-diesel, crude oil and hydrocarbon water mixtures up to 120°C (284°F). Tested to the toughest standards, Enviroline® 405HT can protect bulk storage tanks, process vessels, free water knockouts, heater treaters, clarifiers and other produced water equipment in upstream immersion environments.

Outstanding productivity

Enviroline® 405HT is designed as a fast cure, single coat lining providing a DFT of 500 - 1,000µm (20 - 40mils). It is possible to return your asset to service in fourteen hours, reducing overall installation costs. As a common feature across the Enviroline® range, high abrasion and impact resistance properties aid turnaround and clean out times provide you with further productivity gains.

Protecting both steel and concrete substrates, Enviroline® 405HT can also be used for secondary containment and buried transmission pipelines.

Lining installation and cure time* to a 1,000m² (10,763ft²) tank base operating at 100°C (212°F) in a crude/water mixture



*The time to clean and blast tank, apply and allow coating to cure and return to service

Test data

TEST TYPE	TEST METHOD	RESULTS
Abrasion resistance	ASTM D4060 CS17 Wheel – 1kg weight	21mg/1000 cycles
Pull-Off adhesion	ASTM D4541 Adhesion direct to blasted steel substrate	Typical value of 10MPa (1,500psi)
Chemical resistance	NACE TM-01-74 Hydrocarbon phase 1:1 Toluene/ Kerosene Water Phase 2% NaCl Temperature = 90°C (194°F)	No blistering to substrate Excellent adhesion Colour change in water phase
Chemical resistance	ISO 2812 Part 1 Immersion @ 104°C (220°F) Crude oil (sweet / sour)	No defects
Chemical resistance	ISO 2812 Part 1 Immersion @ 71°C (160°F) Bio-diesel	No defects

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.

www.international-pc.com
pc.communication@akzonobel.com

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