

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)

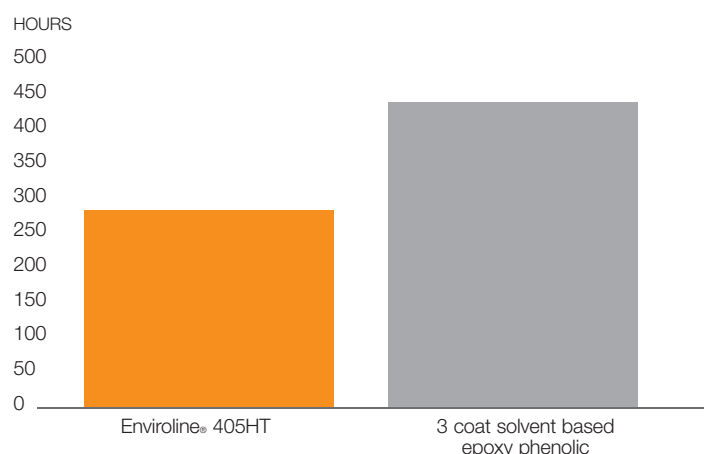
Enviroline® 405HT provides long term protection for a variety of cargoes including bio-diesel, crude oil and hydrocarbon water mixtures up to 120°C (284°F). Tested to the toughest standards, Enviroline® 405HT can protect bulk storage tanks, process vessels, free water knockouts, heater treaters, clarifiers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

All trademarks mentioned in this publication are owned by the AkzoNobel group of companies. © Akzo Nobel 2014.
 AkzoNobel has used its best endeavors to ensure that the information contained in this publication is correct at the time of printing.
 Please contact your local representative if you have any questions.
 Unless otherwise agreed by us in writing, any contract to purchase products referred to in this brochure and any advice which we give in connection with the supply of products are subject to our standard conditions of sale.