

Enviroline 376F-60

Fiber filled for reinforcement

Enviroline® 376F-60 is a polyclamine cured epoxy novolac lining, reinforced with both flake and fiber to provide tank bottom refurbishment with a 14 hour return to service time.

- Complies with the API652 definition of a thick-film reinforced lining and offers proven hole-bridging capabilities in a single coat over new or pitted steel
- Resists continuous immersion in a wide range of chemicals, including crude oil and hydrocarbon water mixtures up to 90°C (194°F)
- High chemical resistance makes it suitable for storing bio-fuel and bio-ethanol
- Flake reinforced system is spray applied in a single coat, significantly increasing application rates and reducing labor costs
- Rapid cure time minimizes process disruption, allowing return to service within only 14 hours
- Excellent impact and abrasion resistance minimizes turnaround times and clean-outs
- Low temperature cure version available, curing at temperatures down to -7°C (20°F)



Enviroline 376F-60 reinforced lining system offers tank internal inspection intervals of potentially 20 years

Enviroline 376F-60 builds on Enviroline 376F-30 with the addition of flake and fiber reinforcement to provide outstanding long term performance against a wide range of chemicals.

Hole-bridging capability in a single coat

Enviroline 376F-60 complies with the API652 definition of a thick-film reinforced lining and offers proven hole-bridging capabilities in a single coat over new or pitted steel. At installation, the thick film reinforced lining is applied as a single coat without the need for specialist chopper guns. Fast cure provides extra efficiency gains, enabling you to return assets to immersion service within 14 hours and reduce overall installation costs.

High temperature immersion

Solvent-free Enviroline 376F-60 provides long term protection for a variety of cargoes, including bio-diesel, crude oil and hydrocarbon water mixtures up to 90°C (194°F). Enviroline 376F-60 also offers good cathodic disbondment resistance, making it ideal for protecting buried pipelines and tank bottoms.

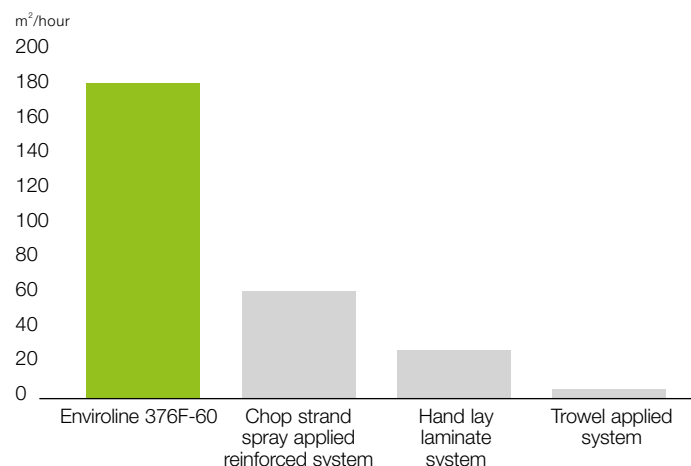
Enviroline 376F-60 can protect a variety of steel and concrete assets, including bulk storage tanks, secondary containment and buried transmission pipelines.

Test data

TEST TYPE	TEST METHOD	RESULTS
Abrasion resistance	ASTM D4060 CS17 wheel - 1kg weight	21.6mg/1000 cycles
Pull-off adhesion to steel	ASTM D4541 Adhesion direct to blasted steel substrate	Typically >12.5MPa (1833psi)
Cathodic disbondment	ASTM G95 1.5 volts for 28 days	@ 24°C (75°F) 1.4mm disbondment @ 65°C (149°F) 5.4mm disbondment
Chemical resistance	ISO 2812 Part 1 Immersion @ 71°C (160°F) (Crude oil, sweet/sour)	No defects
Chemical resistance	ISO 2812 Part 1 Immersion @ 71°C (160°F) (25% Sodium chloride solution)	No defects
Chemical resistance	ISO 2812 Part 1 Immersion @ 71°C (160°F) (Aliphatic hydrocarbons)	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.

Typical application rate of reinforced systems for tank bottom repair



Technical information

Volume solids	100%
Typical thickness	1250 - 2000 microns (50-80 mils) DFT

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

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