

# Interline 850

## Thin film with an extensive track record

Suitable for potable water and aviation fuels, Interline® 850 is one of the most versatile thin film linings.

As a epoxy phenolic, it has low VOC emissions, is recoatable for up to 21 days and can improve your schedule.

Wide resistance to crude and refined petrochemicals makes Interline® 850 an ideal choice for use in storage tanks in downstream refineries and terminals.

- Thin film chemically resistant epoxy phenolic tank lining
- Can be used direct to metal, as both the holding primer and build coat in a system
- High solids formulation (76%) reduces solvent emission
- Recoatable to 21 days at steel temperatures to 50°C (120°F). Greatly improves the scheduling of contracts
- Fully resistant to oxygenated gasoline and all the additives such as MTBE, Ethanol, GTBE and other derivatives
- Tanks can be returned to service in 5 days at steel temperatures above 32°C (90°F)
- Approved for use in contact with aviation fuel in accordance with Def Stan 80-97 as well as the additional requirements of a coating in section 3 of EI1541
- Interline® 850 is certified to ANSI/NSF standard 61. Certification is for tanks greater than 5679 litres (1500 gal), for pipes 122cm (48") in diameter or greater, and for valves 10cm (4") in diameter or greater



# Interline 850 is a two component, chemically resistant, high solids epoxy phenolic used to provide corrosion protection for the internals of steel storage tanks containing a wide range of products

These products include crude oil, unleaded gasoline blends, MTBE, jet fuels, caustic solutions, potable water and a selected range of aromatic and aliphatic solvents.

Epoxy phenolics are essential products for the lining of storage tanks. In the American Petroleum Institute Standard API652 - Lining of Above Ground Petroleum Storage Tank Bottoms - they are designated as Thin Film Systems 500µm (20 mils) or less suitable for the storage of light products, distillates, aromatics, crude and gasoline.

Conforming to API652, Interline® 850 is a third generation material with improved properties which will extend the storage capabilities for tank owners with the additional benefit of significant practical application features which will benefit both owners and applicators.

## Technical information

Color	White, Grey		
Volume solids	76%		
Film thickness	100-150µm (4-6 mils) dry		
Mix ratio	4:1 by volume		
Temperature	Touch dry	Min recoat	Max recoat
10°C (50°F)	9 hours	24 hours	30 days
15°C (59°F)	8 hours	20 hours	30 days
25°C (77°F)	5 hours	8 hours	30 days
40°C (104°F)	3 hours	5 hours	21 days
VOC's	143g/kg EU Solvent Emissions Directive (Council Directive 1999/13/EC) 1.87 lb/gal (225 g/l) USA - EPA Method 24		

Interline® 850 is typically specified as a two coat system at 125µm (5mils) per coat to give a total coating system dry film thickness of 250µm (10 mils).

## Test data

TEST METHOD	REFERENCE	SPECIFICATION DETAILS	TYPICAL RESULT
Pull-off adhesion	ISO 4624	2 x 125µm (5 mils) dft Interline® 850 applied directly to Sa2.5 (SSPC-SP10) blasted steel	Typically 10Mpa (1450psi) when using a PAT Model GM01 hydraulic adhesion tester on 5mm (3/16th inch) thick steel
Abrasion resistance	ASTM D4060	2 x 125µm (5 mils) dft Interline® 850 applied directly to Sa2.5 (SSPC-SP10) blasted steel	Average of 86mg weight loss per 1000 cycles using CS10 wheels and a 1Kg loading
Immersion in deionized water	ISO 2812 Part 2	2 x 150µm (6 mils) dft Interline® 850 applied directly to Sa2.5 (SSPC-SP10) blasted steel	No film defects following 1 year exposure
Impact resistance	ASTM D2794	2 x 125µm (5 mils) dft Interline® 850 applied directly to Sa2.5 blasted steel	Direct impact resistance - 2 Joules

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](http://www.international-pc.com)  
[pc.communication@akzonobel.com](mailto: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.