

# **Interline<sup>®</sup> 9001**

The next generation chemical tank coating



**AkzoNobel**

# The smarter solution to

Introducing new Interline®9001, the next generation in chemical tank coating technology. With enhanced cargo resistance, zero absorption for many cargoes and fewer cycling restrictions, Interline®9001 simplifies the carriage of a wide variety of liquid cargoes, optimising vessel earning potential.

Designed to deliver greater efficiency and flexibility in the operation of chemical tankers, Interline®9001 can switch from one cargo to the next easily, with minimal downtime and tank cleaning. It can carry all of the cargoes standard Bimodal technology can, plus a further 25% of the large volume cargoes that it cannot and has over 60% fewer cycling restrictions.

Its low cargo absorption profile reduces the risk of contamination between cargoes and combined with its smooth, glossy surface, cuts cleaning time and materials by up to 70% compared to standard epoxy phenolics or zinc silicates.

With reduced cleaning requirements comes a corresponding reduction in fuel and CO<sub>2</sub> emissions. In addition, a low volatile organic content (VOC) and 80% volume solids helps to enhance your overall environmental profile.

Based on our new 'Bimodal' technology, Interline®9001 is a carefully engineered blend of polymers. Firstly, a special combination of low and high molecular weight polymers creates a loosely bound, but highly crosslinked flexible network chain, on ambient curing. The post cure process then locks these network chains firmly together to provide a highly chemical resistant paint film offering low absorption properties, whilst still maintaining flexibility to ensure crack resistance on welds when subjected to vessel flexing.

This technology opens up new (previously restricted) cargo sequences for the carriage of aggressive cargoes, for example, our customers can carry methanol to ethylene dichloride (EDC) to acetone back to back, with no coating recovery required – representing a smarter solution to maximising profitability.



# maximising profitability



“Having assessed the cleaning properties of Interline®9001 in a range of cargoes and in accordance with the Dr. Verwey Tank Cleaning Guidelines, it is evident that compared to the industry standard epoxy phenolic and zinc silicate system, Interline®9001 is easier and quicker to clean. Furthermore, there is data to support the claim that when Interline®9001 is cleaned in direct accordance with Dr. Verwey or by up to 70% less than Dr. Verwey recommends, the level of cleanliness achieved is the same. This will likely translate into considerable savings in time, materials and manpower for vessel operators when cleaning from one cargo to the next.”

**G. Johnson. L&I Maritime (UK) Ltd.**

Interline®9001 is the result of working very closely with customers to fully understand their needs whilst engaging cutting edge research in our dedicated tank lining laboratory. Our detailed knowledge of the most aggressive cargoes, together with our experience in tank coating application, allows us to offer a new product that maximises both operational and environmental efficiency in an increasingly challenging market.

With over 2,000 tank lining applications and proven in service performance, all of our products are backed up by our professional Sales and Technical teams. With an 800 strong global Technical Service Team, on hand from surface preparation to the finish coat, they help ensure our products are applied to our exacting standards, delivering optimum performance for you in service.

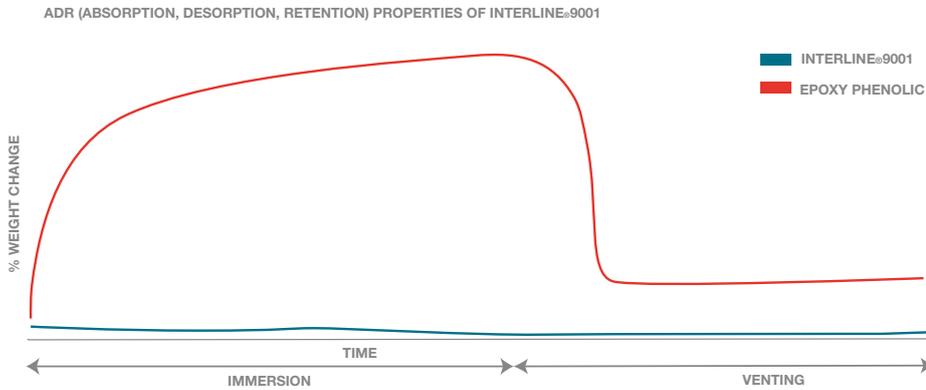
**Keeping you out in front.**



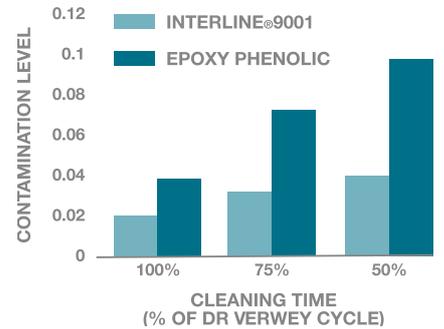
# Interline®9001

## Zero Cargo Absorption

Offering zero absorption of many cargoes, Interline®9001 enables rapid, efficient tank cleaning, reducing costs and minimising vessel downtime. In addition, contamination risk and sequencing restrictions are reduced, increasing earning potential.



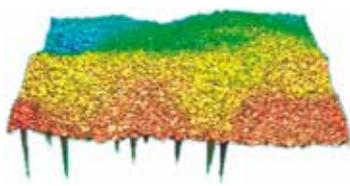
## Key Advantages



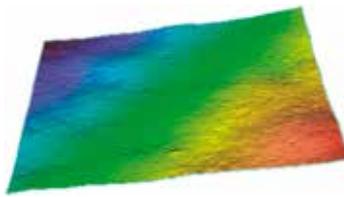
Demonstration of rapid clean vs. epoxy phenolic  
Following immersion in ultra low sulphur diesel, test pieces were cleaned according to Dr Verwey cleaning guide for set times

## Smoother Surface For Easier Cleaning

Highly accurate laser profiling demonstrates that Interline®9001 is 60% smoother than standard epoxy phenolics, as shown below after methanol immersion.

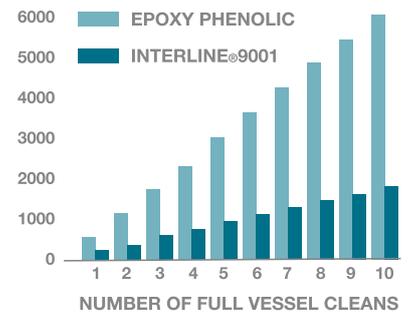


Standard epoxy phenolic  
Roughness average: 0.99µm



Interline®9001  
Roughness average: 0.37µm

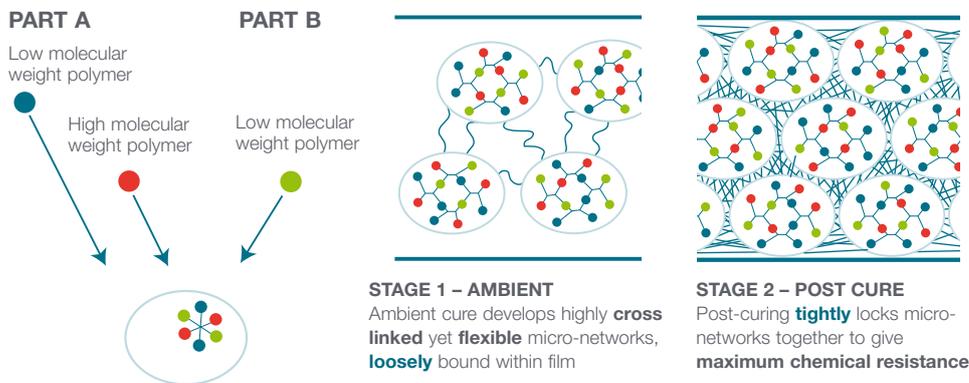
## CO<sub>2</sub> EMISSIONS FROM TANK CLEANING (TONNES)



Significant reduction in CO<sub>2</sub> emissions from tank cleaning operations

## Bimodal Technology

Using a carefully engineered blend of low molecular weight and high molecular weight polymers, bimodal technology creates a highly cross linked but flexible network, delivering maximum chemical resistance.



Optimised operational and environmental efficiency

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# Interline®9001

Two pack, bimodal, cargo tank coating

## Product Description

Interline®9001 is a two pack, high performance, easy clean chemical tank lining with excellent chemical resistance.

## Features

Ultra low absorption polymer technology

Smooth, glossy surface allows easy and efficient cleaning

Bimodal technology provides excellent chemical resistance and sequencing flexibility

Simple and easy, hot water immersion post-curing process

## Benefits

Reduced risk of cargo contamination  
Up to 70% reduced cleaning requirement

Faster return to service  
Reduced cleaning costs  
Lower emissions

Maximum operational flexibility  
Increased earning potential

Reduced time and costs required during coating process

## Product Information

<b>Colour</b>	TCA900 Buff, TCA901 Grey
<b>Surface preparation</b>	Fresh water wash. Abrasive blast to Sa 2½ or SSPC – SP10
<b>Volume solids</b>	80% ±2% (ISO 3233:1998)
<b>Typical film thickness</b>	150 microns dry (188 microns wet)
<b>VOC</b>	177g/lit as supplied (EPA method 24) 93g/kg of liquid paint as supplied. EU Solvent emissions directive (Council Directive 1999/13/EC)
<b>Minimum application temperature</b>	15°C
<b>Method of application</b>	Airless Spray, Brush, Roller

For each of our products the relevant Product Data Sheet, Material Safety Data Sheet and package labelling comprise an integral information system about the product in question. Copies of our Product Data Sheets and Material Safety Data Sheets are available on request or from our website.

## Key Advantages



Interline®9001 after 11 months cargo sequencing: very glossy with no defects – easy to clean



Smoother, glossier surface than both epoxy phenolics and zinc silicates



Test plate in chemical tanker: glossy finish simplifies cleaning process

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