International

# Fouling control solutions

Tailored solutions to maximize fuel and emissions savings in your fleet



AkzoNobel

# Solutions you can rely on



**Serving the marine sector for almost 150 years, International® has built a reputation for delivering proven fuel and emissions saving performance.**

The marine industry is experiencing significant transformation due to evolving regulations as it strives to reduce its environmental footprint and ensure compliance with decarbonization targets.

With established International Maritime Organization (IMO) methodologies - such as the Carbon Intensity Indicator (CII) and the Energy Efficiency Existing Ship Index (EEXI) - now guiding efforts reduce greenhouse gas emissions, we are committed to partnering with the industry to help you select the right solutions to maximize your commercial goals.

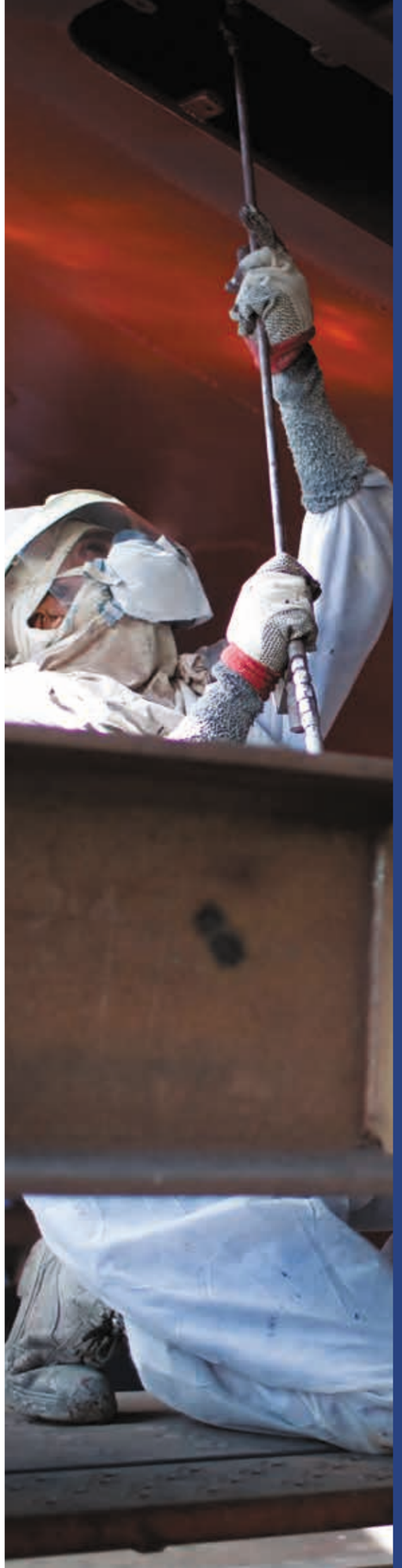
Our products, solutions and global team of industry experts can help keep you ahead of changing regulatory and environmental requirements, whilst maintaining commercial viability, helping you to realise the full global potential of your vessels and business, wherever you operate.

Maintaining a smooth, clean hull by controlling the growth of marine biofouling and reducing drag is important in sustaining the operational efficiency of a vessel, including minimizing fuel consumption and $CO_2$ emissions.

With our **Intercept®, Intersleek®, Intersmooth®, Interswift®** and **Interspeed®** ranges, we provide fouling control schemes tailored to meet both your operational and performance expectations.

**Supported by our in-house hull performance team, we work closely with vessel operators to ensure optimal results and deliver data-driven, tailored solutions. Combined with our extensive R&D investment and test facilities around the world, our team helps maximize performance and sustainability for your fleet.**





# Choosing the optimal solution to enhance vessel performance

**Determining the right fouling control solution for your vessel to maximize your business goals whilst meeting regulatory compliance requires expert input and critical insights.**

That's where Intertrac® Vision comes in, our industry first big data tool offers ship owners and operators predictions on powering, speed, fuel consumption and the $CO_2$ saving potential of fouling control coatings, based on the operational profile of their vessel.

Intertrac Vision combines patented algorithms and data from over 200,000 dry docking events and 10,000 vessel operations, including both dry docked and newbuild vessels, to predict the performance of fouling control coatings throughout your vessel's upcoming service period.

By combining historical data with cutting-edge machine learning, Intertrac Vision provides a comparative analysis of vessel performance tailored to vessel type, shape, size, operational profile and fouling control challenges. This enables us to work together with vessel operators to simplify the coating selection process and deliver data-driven outcomes.



**Lloyd's Register verification strengthens customer confidence**

At International®, we work in close partnership with our customers to deliver tailored solutions that maximize operational efficiency and performance. Our commitment to transparency and measurable results is reinforced by independent verification from Lloyd's Register, who have confirmed that our ISO 19030 analysis is fully compliant with the standard. This validation gives our customers confidence in the accuracy of our vessel speed loss reporting and demonstrates our dedication to supporting their environmental and economic objectives.

**Enhanced forecasting capabilities**

Intertrac Vision now includes recently improved features such as:

- Total cost of ownership analysis
- CII rating predictions
- EU ETS impact assessment
- Extended dry docking cycles

These improvements help vessel operators make smarter, data-driven decisions about their fouling control coatings. This enables our team to provide greater transparency on the impact of coating choices, their consequences on EU ETS and predict CII rating achievements over the next operational cycle. By presenting Intertrac Vision forecasts comparatively, we ensure the regulatory impact, value and potential savings of each coating scheme are clear during the selection process.

To book a consultation please visit our website or contact your International® sales representative.

# High performance biocide-free fouling control with a proven track record

## Intersleek 1100SR

Intersleek® 1100SR is an advanced biocide-free foul release coating. Its ultra smooth amphiphilic surface is low friction, reduces speed loss and maximizes fuel and $CO_2$ emission savings, all without the use of biocides. Intersleek 1100SR is easy clean and not only boosts your sustainability profile but also provides long term economic gains, ensuring optimal efficiency from the start and throughout the vessel's life cycle.

**Scheme life of up to 90 months and speed loss of up to 1.2% over the docking cycle.**

## The benefits of Intersleek 1100SR

- Predictable high performance each year until your next dry docking
- Operational flexibility for biofouling management programs
- Biocide-free with lower VOC emissions* at dry dock

The industry-leading RightShip initiative recognizes our Intersleek range of biocide-free, foul-release coatings as a technology that delivers energy-saving benefits and may be taken into account within RightShip's GHG Rating methodology.

## Intersleek Over 30 years of foul release track record

**1996 — Intersleek 425**



Since launching in **1996** with silicone based Intersleek 425, Intersleek has established itself as the benchmark in biocide free fouling control

**1999 — Intersleek 700**



Advanced silicone-based technology suitable for deep sea scheduled vessels

**2007 — Intersleek 900**



High-performance,fluoropolymer-based foul release coating suitable for deep sea vessels

**2013 — Intersleek 1100SR**



World's first biocide free fouling control featuring patented slime release technology

**Today — Intersleek 2120**



A cost-effective silicone fouling control, providing fuel and $CO_2$ emissions savings. An ideal choice for bulker carrier and tanker operators



*Compared to all antifoulings and biocidal silicone schemes

# Biocide-free, silicone foul release coating for cost-efficient performance

## Intersleek 2120

Intersleek 2120 is a biocide-free silicone foul-release coating that delivers reliable hull performance at an optimized cost level. Built on 30 years of proven Intersleek silicone technology, the coating forms a smooth, low-friction surface designed to help reduce drag, minimize speed loss, and lower fuel consumption and emissions.

Intersleek 2120 is an ideal solution for bulker carrier and tanker operators seeking to transition from traditional biocidal SPC coating systems.

**Scheme life up to 60 months and a speed loss of up to 1.4% over the docking cycle.**

## Intersleek 1001

Intersleek 1001 was the first fouling control coating to use patented Lanion technology that incorporates bio-renewable raw material to deliver enhanced vessel performance throughout the dry-docking cycle. This technology enables hulls to be ultra smooth, reducing drag, which in turn lowers fuel consumption and emissions.

**Scheme life up to 60 months and a speed loss of up to 2.2% over the docking cycle.**

### Intersleek on tankers





### Intersleek on bulkers





# Our highest performing biocidal antifouling coating

## Intercept 8500 LPP

Predictable and flexible performance with environmental and economic gains. Intercept® 8500 LPP is the highest performing antifouling product within the International® range.
It delivers consistent and effective antifouling performance for a clean foul-free hull combining linear polishing with an optimized biocide package. Ideal for use across a range of vessel types and operating profiles.

**Scheme life up to 90 months and a speed loss of up to 1.2% over the docking cycle.**

Lloyd's Register has independently confirmed that International® applied ISO 19030 analysis in full accordance with the standard, validating our reported vessel speed loss results.



### The benefits of Intercept 8500 LPP

- Predictable high performance utilizing linear polishing technology
- Delivers proven multi-route performance and can adapt to changes in vessel operational profiles
- Proven track record of performance over long docking cycles
- Boosted economic benefit via lower drydock costs and fuel savings
- Sustainable solution with lower VOC emissions* in dry dock and less waste

*compared to alternative silyl methacrylate technology



# Outstanding antifouling solutions for long-term performance

## Intersmooth 7475Si SPC

Intersmooth® 7475Si SPC is a high performance, low friction, SPC antifouling based on silyl methacrylate polymer technology which offers improved fouling control over copper acrylate and silyl acrylate counterparts. Designed for deep sea vessels at newbuilding and maintenance and repair, with a scheme life of up to 90 months and a speed loss of up to 1.7%.

## Intersmooth 7465Si SPC

Intersmooth 7465Si SPC is a high performance, low friction, SPC antifouling based on silyl acrylate polymer technology. Designed for deep sea vessels at newbuilding and maintenance and repair, with a scheme life of up to 90 months and a speed loss of up to 2.0%.

## Intersmooth 7200Si SPC

Intersmooth 7200Si SPC is a cost effective solution, using market leading silyl methacrylate polymer technology in combination with a proven biocide package, providing fuel savings for all vessel types on all operational routes. With 61% volume solids, Intersmooth 7200Si SPC possesses the highest volume solids among silyl antifoulings. The self polishing technology delivers a low friction surface for your underwater hull, contributing a speed loss of up to 3.0% for a scheme life of up to 60 months.

## Intersmooth 7465HS SPC

A high solids, high performance, low friction, self polishing copolymer (SPC) antifouling. Particularly suitable for use where solvent emissions need to be reduced. Scheme life of up to 90 months and a speed loss of up to 2.0%.

# Delivering cost-effective and reliable performance

## Intercept 7000

A cost-effective choice in biocidal antifouling featuring linear polishing. Specifically designed for deep sea vessels at newbuilding and maintenance and repair with a scheme life of up to 60 months and a speed loss of up to 2.7%.

## Interswift 6800HS

A high volume solids, hydrolysing, self-polishing antifouling incorporating unique copper acrylate SPC technology. Interswift® 6800HS can be used at newbuilding or maintenance & repair with a scheme life of up to 60 months and a speed loss of up to 3.3%.

## Interswift 6600

A high volume solids, hydrolyzing, self-polishing antifouling incorporating unique copper acrylate SPC technology.
A cost-effective alternative to Interswift 6800HS, Interswift 6600 can be used at newbuilding and maintenance and repair with a scheme life of up to 60 months and a speed loss of up to 4.7%.

## Interspeed 6400/6200

Interspeed Controlled Depletion Polymer (CDP) antifoulings provide a cost-effective choice in CDP self-polishing fouling control range. These coatings can be applied directly over existing antifoulings which are in good condition. Suitable for use at newbuilding and maintenance and repair, for in-service periods of up to 36 months and a speed loss of up to 4.7%.



# High performance coatings for coastal vessels

Vessels trading in coastal waters often face significantly higher fouling challenges compared to those in deep sea environments. Coastal conditions, characterized by warmer waters and nutrient-rich surroundings, result in elevated biofouling rates. This increased fouling can lead to greater drag, reduced fuel efficiency and higher maintenance costs. Our antifouling solutions are designed to address these challenges and meet your operational and performance expectations.

## Intercept 8500 LPP

Our highest performing biocidal antifouling, Intercept 8500 LPP delivers excellent fouling control performance on vessels operating in the severe fouling conditions of coastal waters. Ideal for passenger ferries, Ro-Ro vessels, general cargo ships and offshore support vessels, it supports in-service periods of up to 60 months and is suitable for both newbuilding and maintenance and repair.

## Intersmooth 360/365 SPC

For maintenance and repair and for newbuilding, our high performance SPC antifouling based on copper acrylate polymer technology. Designed for vessel trading in coastal waters, for in-service periods of up to 36 months.

# Supporting fleet optimization with data-driven decision-making

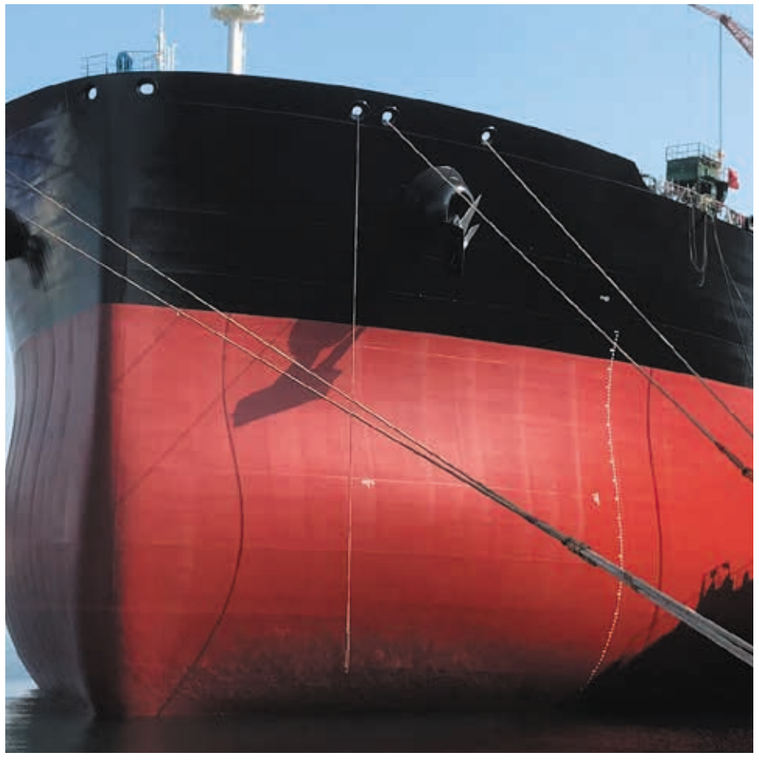


**Our big data prediction tool Intertrac Vision helps vessel operators achieve decarbonization goals by selecting the best fouling control coatings based on their operations, performance and budget.**

With nearly 10 years of experience working closely with vessel operators, Intertrac Vision has produced multiple case studies where forecasts have been proven in real life operation. Notably, our whitepaper *"Optimizing Vessel Performance for Decarbonization Goals: The Role of Tailored Coating Recommendations"* demonstrates the effectiveness of tailored fouling control recommendations using Intertrac Vision.

The forecasting tool predicted a 1.4% speed loss over a 60 month in service period for a globally trading VLCC vessel using Intercept 8500 LPP, which aligned with actual performance. Real-time monitoring ensured optimal performance, achieving the predicted speed loss and maintaining a Carbon Intensity Indicator (CII) 'A' grade.

This case study highlights how customized coating recommendations and real-time data, supported by our in-house hull performance team, enhanced vessel performance and contributed to decarbonization efforts.







## Maximizing vessel performance through collaboration

Our whitepaper *"Optimizing Vessel Performance for Decarbonization Goals: Managing the complexities of hull efficiency and fouling control with data-driven decision-making"* explores how International® marine coatings and a vessel operator collaborated to enhance both vessel performance and sustainability, using the Intersleek 1100SR coating. The case study examines three LNG vessels over a 60-month service period, all coated with Intersleek 1100SR.

It underscores the importance of high-quality data and comprehensive reviews in optimizing hull efficiency, reducing fuel consumption and minimizing $CO_2$ emissions. The findings highlight the necessity of diverse datasets and expertise to support effective decision-making and ensure compliance with regulatory requirements.

## Expertise from our in-house hull performance team

Continuous collaboration between our in-house hull performance team and vessel operators supports optimal performance and swift identification of deviations. Working in co-operation with vessel operators, we offer data-driven support services that address the specific coatings requirements of each vessel. Our industry knowledge ensures that operators benefit from tailored solutions, leading to improved outcomes and operational excellence.

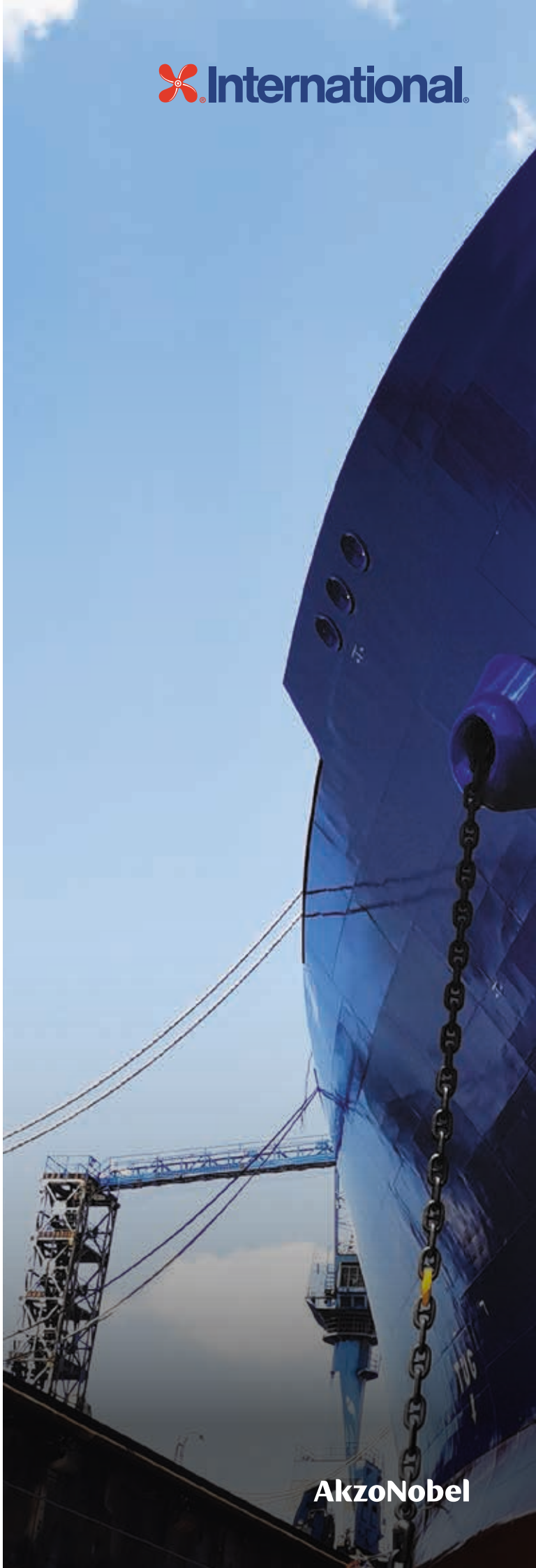
## About International

International® is a world leader in high performance marine, protective, and yacht coatings. Onshore and off, International® delivers complete solutions backed by expert service, global support and over 140 years of heritage in innovation and partnership — spanning anticorrosion, passive fire protection, and advanced fouling control to premium aesthetic finishes. International® coatings cover everything from the world's tallest and most sustainable buildings to supertankers and megayachts. International® is a brand of the Marine, Protective and Yacht Coatings business unit of AkzoNobel.

**To discover more about our range of fouling control coatings, contact us or visit our website:**

international-marine.com

## Propelling you forward.




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