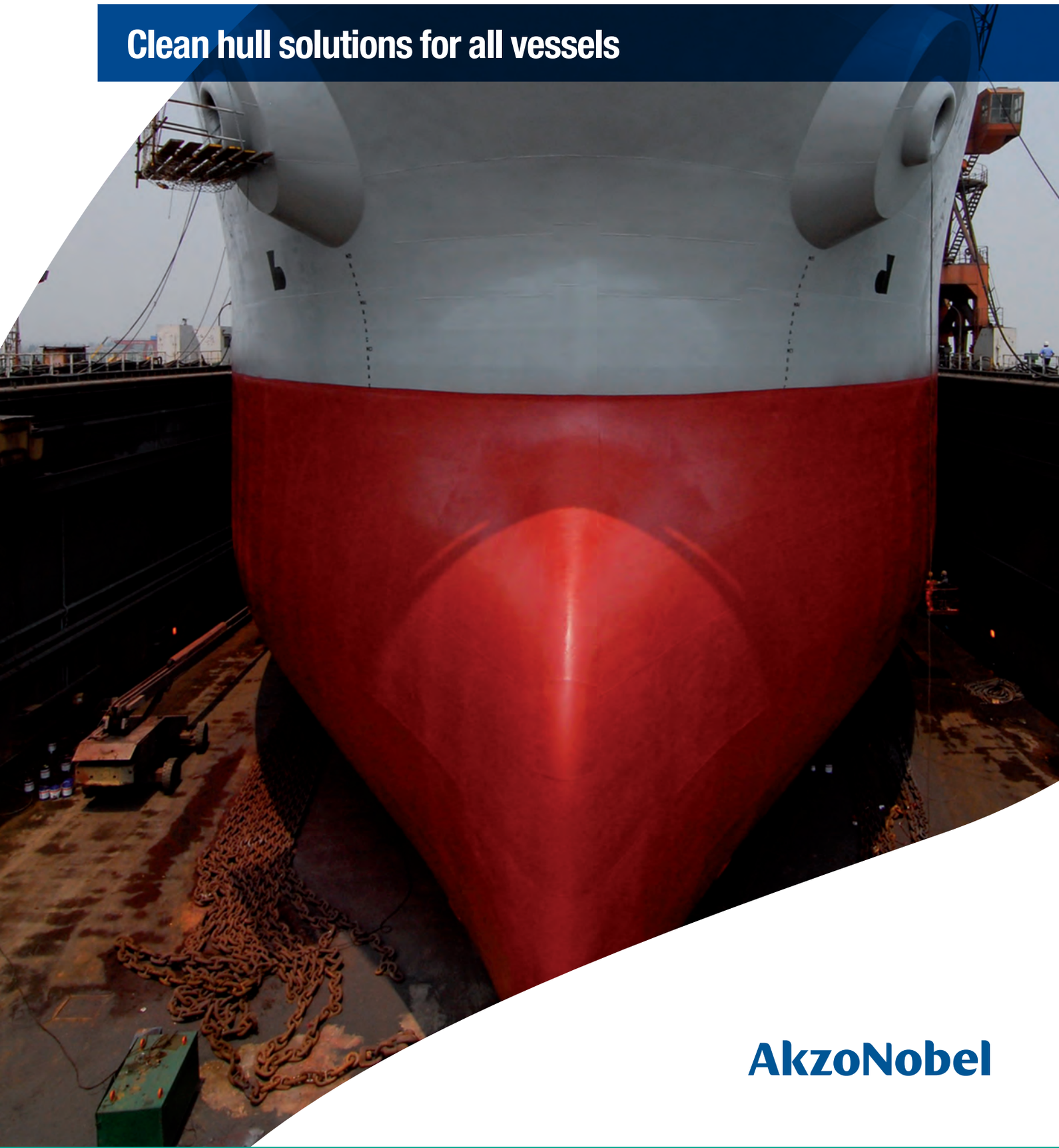
International

Antifouling coatings range

Clean hull solutions for all vessels



AkzoNobel



Products to meet your operational requirements

We have supported the shipping industry with pioneering antifouling technology since the introduction of the first self polishing copolymer (SPC) antifouling in 1974. Since then, our renowned range of antifoulings has continued to evolve, meeting the needs of our customers in an ever changing environment.

Maintaining a smooth, clean hull by controlling the growth of organisms and minimising drag is important in sustaining the operational efficiency of a vessel. Antifouling coatings inhibit fouling growth by releasing an active ingredient which prevents organisms from settling. These coatings play a key role in reducing the overall operational and commercial costs of a vessel. Fuel can represent as much as 50% of a ship's total operating costs. If ships didn't use antifouling coatings, fuel consumption, cost and carbon dioxide emissions could increase by as much as 40%*.

Additionally, high performance antifoulings deliver through-life benefits, including extended drydock intervals and reduced time in drydock, lower future maintenance costs and reduced greenhouse gas emissions through lower fuel consumption. Antifoulings can also minimise the potential for translocation of invasive marine species, an area of growing concern for regulatory bodies such as the International Maritime Organisation.

* Source: World Shipping Council, 2008

Delivering performance through innovation

We understand the diverse conditions under which antifouling products need to perform.

Our network of dedicated research and development laboratories in key locations worldwide work in conjunction with our customers and industry experts, including universities, raw material suppliers, class societies and regulatory bodies to assess these challenges and deliver new, innovative products and technologies to ensure our customers stay out in front.



Product range

Our antifouling range features a number of technology types, each designed to meet our customers' operational and performance expectations.

The range includes a patented linear polishing polymer (LPP), high performance copper acrylate and silyl acrylate self polishing copolymers (SPCs), controlled depletion polymers (CDPs), and standard performing self polishing copolymers – a combination of SPC and CDP technologies.

Through our product stewardship policy, this range has continuously evolved to increase the volume solids of our products, providing through life cost savings and the added benefits of faster application and reduced coats per scheme, low levels of overspray, less time in drydock and reduced VOC (volatile organic compound) emissions.

Intercept®

Intercept® is a brand new patented biocidal antifouling that will revolutionise predictability in hull coating performance.

Intercept®8000 LPP

Featuring brand new patented Lubyon® polymer technology, Intercept®8000 LPP provides consistent, predictable linear polishing performance. Specifically designed for the deep sea market, it enables ship owners and operators to plan and budget effectively throughout the docking cycle, for in-service periods of up to 90 months.

New patented Lubyon® polymer technology is unique and replicates the linear polishing behaviour of the shipping industry benchmark tributyltin based antifoulings.

Intercept®7000

An economical choice in biocidal antifouling featuring linear polishing. Intercept®7000 is derived from patented Lubyon® polymer technology and features all the attributes of a typical mid range biocidal antifouling product, with the added benefit of linear polishing. It is specifically designed for deep sea vessels at newbuilding and maintenance and repair, for in-service periods of up to 60 months.

Intersmooth®SPC

Launched in 1974, the Intersmooth®SPC brand has a strong track record on over 36,200 applications, and has continuously evolved to meet customer needs. Intersmooth®SPC



products are high performing antifoulings, suitable for use at newbuilding and maintenance and repair, and are available in copper acrylate (Intersmooth®7460/7465HS SPC†) and silyl acrylate (Intersmooth®7465Si SPC) technologies. Both deliver equivalent performance expectations, with 4%* fuel and emissions savings, and up to 90++ months fouling control (dependent on vessel type).

Thanks to its high volume solids, Intersmooth®SPC can be applied quickly, with reduced wastage and pail consumption and less VOC emissions to the atmosphere**. Intersmooth®360 SPC and Intersmooth®365 SPC are copper acrylate SPCs which provide antifouling protection for coastal vessels at maintenance and repair and newbuilding respectively.

Interswift®

Interswift® products are our standard performing self polishing copolymer antifoulings, based on a blend of Intersmooth®SPC and Interspeed® technologies. The careful combination of these two technologies produces antifoulings which have the controlled depletion polymer benefits of surface tolerance, high volume solids and an attractive cost base, together with the SPC attributes of polishing rate control, reduced leached layer size and control of biocide release.

Interswift®6800HS

Interswift®6800HS is a blend of copper acrylate SPC and rosin-based CDP technology, providing up to 60 months fouling control in service.

Interswift®6900Si

Interswift®6900Si gives the same level of antifouling performance as Interswift®6800HS, blending silyl acrylate SPC and CDP technologies.

Interspeed®

The Interspeed® brand has a track record of over 16,000 applications and offers an economical choice in fouling control, using CDP technology.

Interspeed®6400/6200+

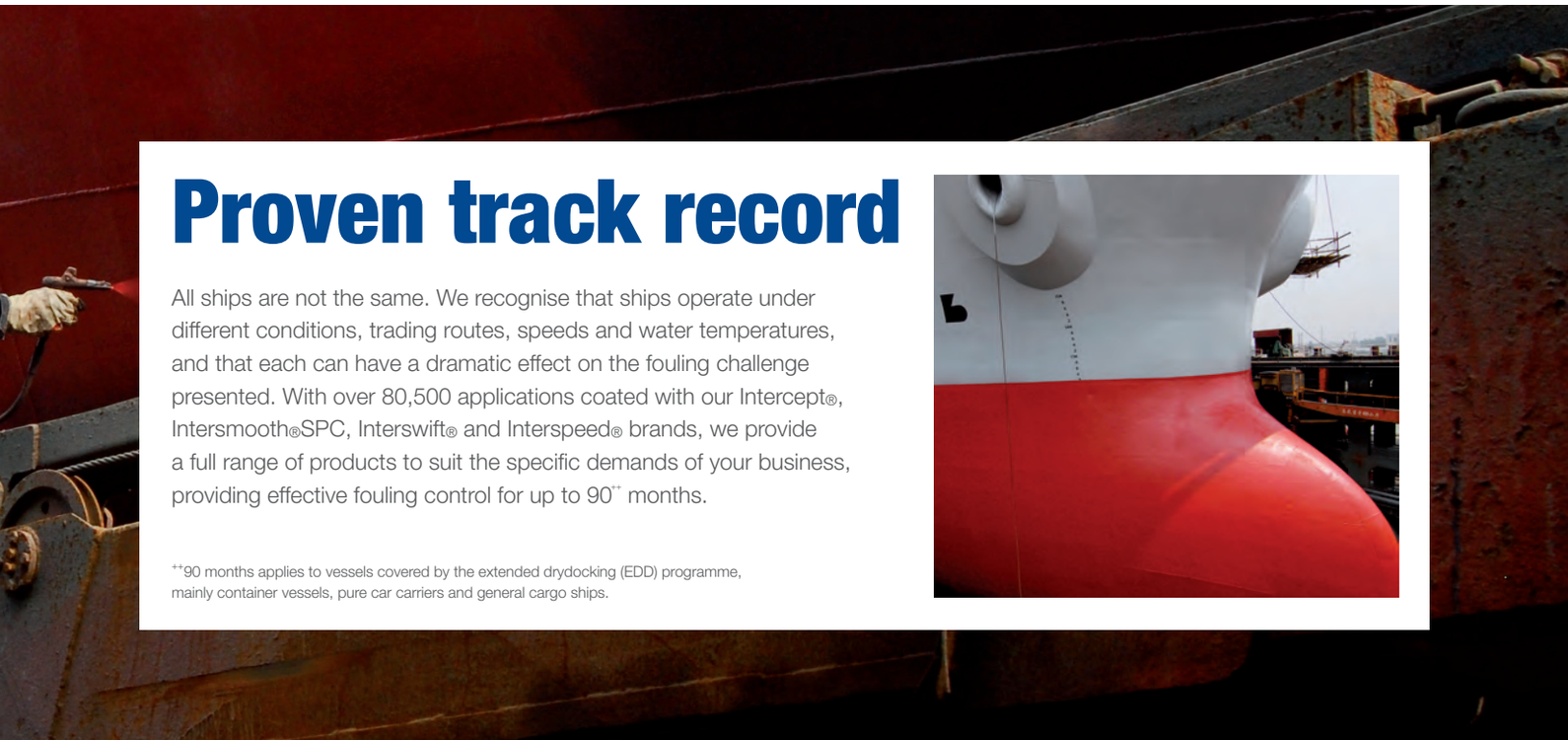
Interspeed®6400/6200 deliver fouling protection for up to 36 months.

† Intersmooth®7460HS SPC is suitable for drydocking, Intersmooth®7465HS SPC for newbuilding. In Hong Kong, Intersmooth®7460HK SPC should be specified instead of Intersmooth®7460HS SPC, delivering the same performance with a VOC content of 395g/lt and 58% volume solids. BEA954 Brown, BEA957 Red.

* Based on over 5,000 vessel drydock and inspections for fouling rating, combined with AHR measurements from over 50 vessel outdockings.

** Compared to Intersmooth®460/465 SPC.

\+ Due to regulations, equivalent products for North America are Interspeed®6400NA and Interspeed®6200NA (for up to 24 month schemes).



Proven track record

All ships are not the same. We recognise that ships operate under different conditions, trading routes, speeds and water temperatures, and that each can have a dramatic effect on the fouling challenge presented. With over 80,500 applications coated with our Intercept®, Intersmooth®SPC, Interswift® and Interspeed® brands, we provide a full range of products to suit the specific demands of your business, providing effective fouling control for up to 90++ months.

++90 months applies to vessels covered by the extended drydocking (EDD) programme, mainly container vessels, pure car carriers and general cargo ships.

A century of experience

Since the introduction of our first antifouling paint in 1881, we have continued to invest heavily in research and development to offer customers a choice of products to suit their individual operational, commercial and environmental requirements.

We take our environmental responsibilities seriously and were the first coatings company to voluntarily withdraw TBT (tributyltin) based antifoulings from our range, ahead of the IMO's 2003 global ban. Our range continues to evolve with our environmental obligations at the forefront of our new product development.

Proven performance

Our Dataplan coating performance monitoring provides the marine industry's most accurate record of coating application and performance for newbuildings and drydockings – adding value to customers engaged in planned, professional maintenance programmes, since 1977.
All vessel data is verified against the Lloyd's Register Fairplay International Shipping Database.

Worldwide support

Our global network of over 800 technical service representatives brings comprehensive advice to shipyards and vessel operators, ensuring that International® products are applied to our exacting standards, for optimum in service performance.



We have used Intersmooth®SPC self polishing copolymer antifouling products for many years on our vessels. These products have kept our vessels foul-free and we have the confidence that they will continue to perform for us... we are very pleased with the performance to date.

Mr. Dietmar Thiem,
Head of the Technical Department for Claus Peter Offen

International Paint Ltd is part of AkzoNobel, the Netherlands based company serving customers throughout the world with coatings and chemicals.

International Paint Ltd,
Stoneygate Lane, Felling
Gateshead, NE10 0JY
United Kingdom

Call: +44 (0)191 469 6111
Fax: +44 (0)191 495 2003
Send an email:
marine.communication@akzonobel.com
Visit our website:
www.international-marine.com/antifoulings

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