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**One solution.  
Total protection.  
Chartek ONE.**





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# Because true protection requires a total solution



Chartek® offers the world's most complete range of epoxy intumescent passive fire protection (PFP) coatings. And because we know that every project is unique, the International® team of experts supports owners, EPCs and applicators in meeting their most complex and specific needs with the most appropriate, simplest solutions.

**Never compromise.  
Chartek.**

“Through decades of innovation, development and refinement, our industry leading Chartek PFP range from International® is tried and tested in the harshest conditions around the world. Our deep understanding of the fire and cryogenic spill protection needs of energy assets combined with our product development and testing expertise ensures we deliver focused solutions that meet the needs of asset owners and operators.”

**Matthew O’Keeffe,  
Protective Coatings Global Segment Manager**

# Offering a comprehensive solution for all your project needs

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## **One partner for all your coating needs**

International® supplies expertise, protective coatings, and innovative solutions for coatings products and services for complex, high-cost, multi-stakeholder projects across industries

- spanning from energy, infrastructure, and mining, to the energy transition sectors. We're equipped to help customers navigate this landscape from a coatings perspective and provide a tailored approach to add value for our customers across the value chain.

Our International® product range offers a comprehensive solution for all your project coating and fire protection needs, ensuring seamless integration and superior performance for both steel and concrete infrastructure. By providing a full range of advanced protective coatings under one roof, we eliminate the need for multiple suppliers, simplifying your supply chain and delivering consistency and quality across all applications.

As your dedicated partner, we are committed to delivering exceptional protection, enhancing the longevity and safety of your asset while streamlining your project management.



## Self reinforced pool and jet fire solution



### Chartek ONE

#### UP TO 59% REDUCTION IN WORKSHOP HOURS WHEN USING CHARTEK ONE\*

Certified to meet the industry's highest standards, including NORSO M-501:2022 (Edition 7), Chartek ONE simplifies application to a single coat mesh-free solution even for 60 minutes high heat flux jet fire scenarios. Chartek ONE's 100% solids, boron-free formula helps improve HSE performance and footprint.

\*Based upon a 60-minute jet fire scenario with a representative steel size for offshore oil and gas assets

## Super efficient pool fire solution



### Chartek 2218

#### UP TO 300% MORE STEELWORK COATED PER DAY COMPARED TO CEMENTITIOUS PFP

Chartek 2218 is an epoxy PFP system for installations requiring certification to the ANSI/UL 1709 standard. It is certified for up to 4 hours of pool fire protection and is jet fire tested up to 2 hours. Simplified installation and unique rapid cure, even at low temperatures, enable faster application, improve production rates and reduce overall costs.

## Process specialist solution



### Chartek 1709

#### MILLIONS OF SQUARE METERS COVERED OVER A 15 YEAR PERIOD

Chartek 1709 adds unique capabilities to our ANSI/UL 1709 listed product offer to give you an unrivalled choice. Having covered millions of square meters over a period of 15 years, Chartek 1709 can be used with confidence for a wide range of applications and fire scenarios, including pool fires up to 4 hours, jet fires, and vessel protection. Its low installed weight and excellent application properties make it the ideal choice for modular construction or site application.

## Cryogenic specialist solution



### Chartek 1620CSP

#### DUAL COVERAGE THAT PROVIDES BOTH CRYOGENIC SPILL PROTECTION (CSP) AND FIRE PROTECTION

Chartek 1620CSP is a unique intumescent PFP coating that provides dual coverage. It protects against leaks of liquified natural gas (LNG) at -162°C (-260°F) and is designed to enhance productivity through fast application and low applied thickness. It also provides excellent corrosion and blast resistance.

### Chartek 1960CSP

#### COMBINED HYDROCARBON FIRE PROTECTION & INSULATION AGAINST CRYOGENIC LIQUID EXPOSURE

Chartek 1960CSP is a unique intumescent material that provides combined hydrocarbon fire protection and insulation against cryogenic liquid exposure. A high build, solvent free, two pack epoxy material, Chartek 1960CSP also provides excellent corrosion protection and blast resistance

# Supporting customers globally

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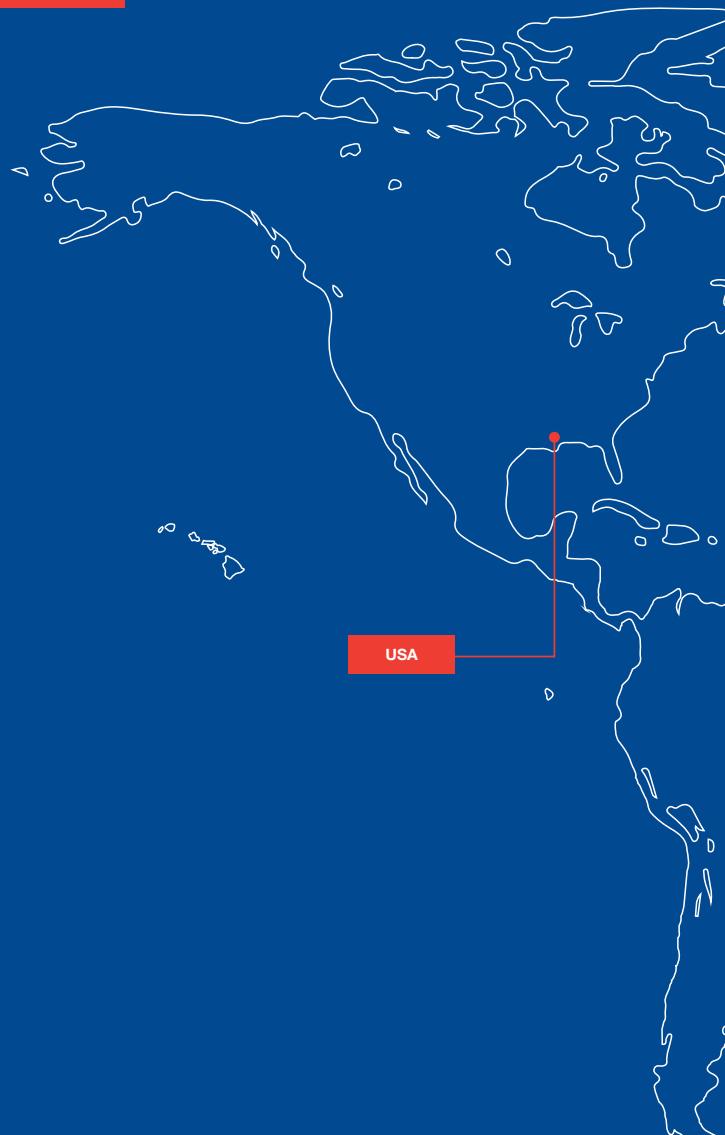
“With Chartek, you get more than just a product; you get a partner with a celebrated history and a commitment to excellence. Our extensive portfolio and innovative R&D efforts ensure that we meet and exceed our customers’ expectations.”

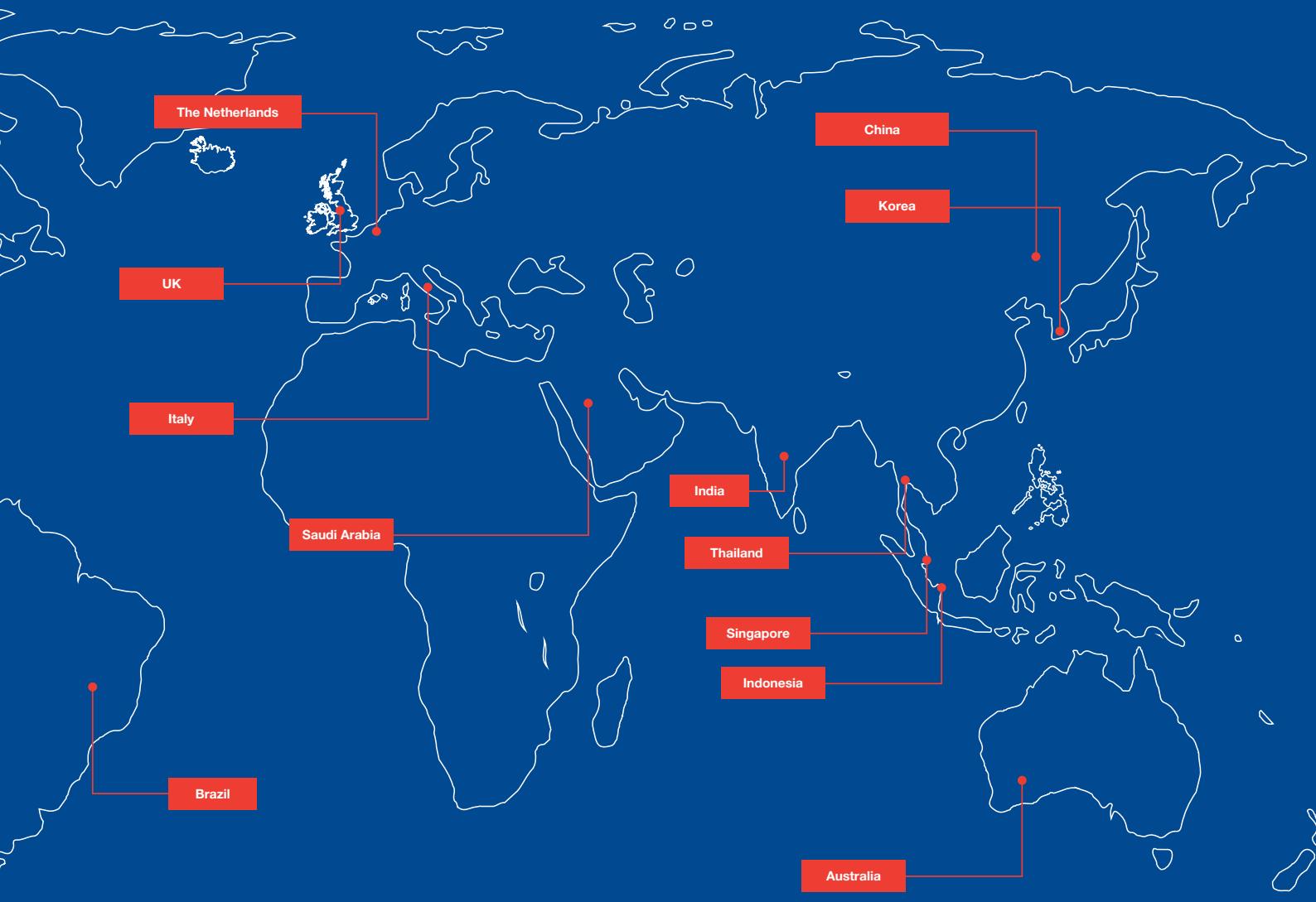
**Andrew Holt,  
Protective Coatings Business Development  
Manager, EMEA**

You'll find us everywhere

**130**  
manufacturing sites

**35,200**  
employees





At AkzoNobel, we're proud to provide unrivaled international corrosion and coatings expertise. With over 3,000 R&D professionals worldwide, 2,800+ patents/patent applications and 70 laboratories we're ready to support your projects across the globe. Our NACE and FROSIO accredited Technical Service Representatives (TSR) offer a globally supported, complete technical services program tailored to your project requirements giving us the ability to co-ordinate and project manage worldwide. This ensures consistency, high quality and technical competency.

# A recognized sustainability leader

We're focused on ensuring that the pioneering paints and coatings we supply today can help safeguard our world tomorrow.

Only paints and coatings company **AAA in MSCI**



**Top 1%** of all companies assessed by EcoVadis



Only paints and coatings company **ESG industry top rated by Sustainalytics**



# Exploring new frontiers



International® PFP coatings excel in the most demanding conditions, and function according to global standards. Standards include high heat flux jet fire, cryogenic liquid exposure, oil and gas divisional configurations, and vessel considerations. Our specialist safety critical coatings are built to last across the lifetime of your asset delivering peak performance.

**Building on the technology developed for heat shields in NASA's Apollo space program, Chartek was born 50 years ago and continues to meet all your project requirements.**

# One solution. Total protection. Chartek ONE.

From planning and specification to installation and maintenance, ensuring the highest standards of PFP is essential. In the dynamic world of assets for upstream energy production, it's important to stay ahead of ever-changing regulations, decarbonization efforts, emerging technologies, and supply chain complexities.

That's why we partner closely with specifiers, applicators, and contractors, helping them navigate the intricate factors involved in fireproofing their assets. Together, we meet the rigorous demands for scheduling, cost efficiency, safety, durability, performance, and sustainability across the entire value chain.

This is where our expertise and the Chartek ONE solution comes in. One dedicated team. One coat, mesh-free that meets industry standards. One solution for multiple applications. One choice that enhances health, safety, and environmental standards, minimizing risks and supporting sustainability.

**Never compromise.**



# Chartek ONE application scheme

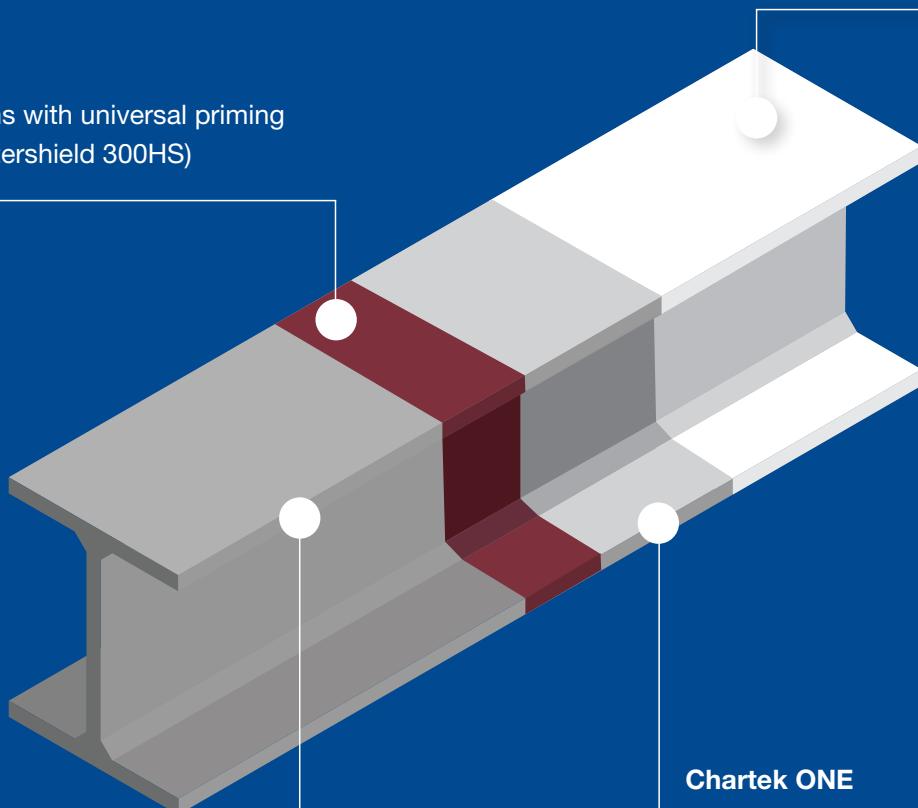
Chartek ONE has been tested and developed to work with our class-leading universal primers from our International® range including Intershield 300HS and isocyanate free topcoats like Interfine 878.

## Topcoat: Interfine 878

A patented high performance, high volume solids content acrylic polysiloxane cosmetic finish providing excellent long term durability. For overcoat information please scan the QR code to see our Technical Data Sheet

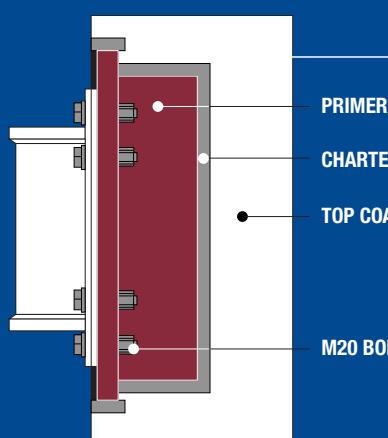
### Primer

Optimal solutions with universal priming concept (e.g. Intershield 300HS)



### Chartek ONE

Two-component material applied in a single coat application for 60 minutes jet fire and less; can be applied in more than one coat, wet on wet for longer durations.



Contact our  
expert team today

# View some of the application areas for Chartek ONE below





Chartek ONE capable of handling a range of surface temperatures, protects where damage can occur and holds at terminations. This simplifies the application process as it removes the requirement for any additional mechanical reinforcement for any jet fire duration.

Chartek ONE through its simplification and unique product specific engineering design delivers a single coat solution for 3-sided protection with no mechanical reinforcement for terminations required.

For vertical and horizontal divisions Chartek ONE enhances HSE with its 100% solids, boron-free formula. Eliminating harmful substances, it reduces health risks and environmental impact.

# Complex projects. Simple solution.

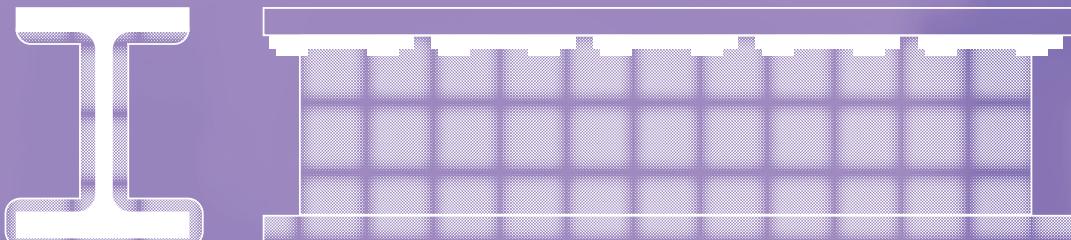
Chartek ONE is mesh-free with an option to use metal mesh and pin for jet fire scenarios where required.

Ideal for patch repairs where minor attachments are required and maintenance, Chartek ONE simplifies projects and reduces overall costs throughout the lifetime of the asset.

## Step 1: Install strip of metal mesh on the underside of top flange



## Step 2: Apply first layer of Chartek



By virtue of patented technology, Chartek ONE protects where damage can occur and holds at terminations. This simplifies the application process as it removes the requirement for any additional mechanical reinforcement for any jet fire duration.



**100% solids, boron-free formula.  
Same reliable protection.**

Chartek ONE enhances HSE with its 100% solids, boron-free formula. Eliminating harmful substances, it reduces health risks and environmental impact. AkzoNobel is top-rated in sustainability indices and ChemScore, making International® an ideal partner for future-proofing passive fire protection.



# PFP that ticks all the boxes.

Chartek ONE simplifies application to a single coat mesh-free solution\*. It streamlines installation processes with simple patch repairs for connections and PFP removal for minor attachments, even in the harshest jet fire scenarios. It delivers performance while being boron-free for enhanced safety and sustainability.

“Chartek ONE has been developed utilizing our dedicated product development team, and our extensive project experience. Our simplified approach will bring significant schedule and commercial improvements to your project, with the 100% elimination of mesh in both shop and on-site applications – as well as low thickness, reducing labor and material costs.”

**Craig Norman,**  
Key Account Manager – Chartek Europe



## Because time is money.

Chartek ONE streamlines processes, while delivering maximum protection and enabling rapid return to service. It also frees up time for engineers through simplification in design and significantly reducing specification complexity with one solution for steel construction, patch repair, terminations and areas of elevated temperature.

\*For 60 minutes jet fire protection.

**Up to 59% reduction in workshop hours when using Chartek ONE\*\***



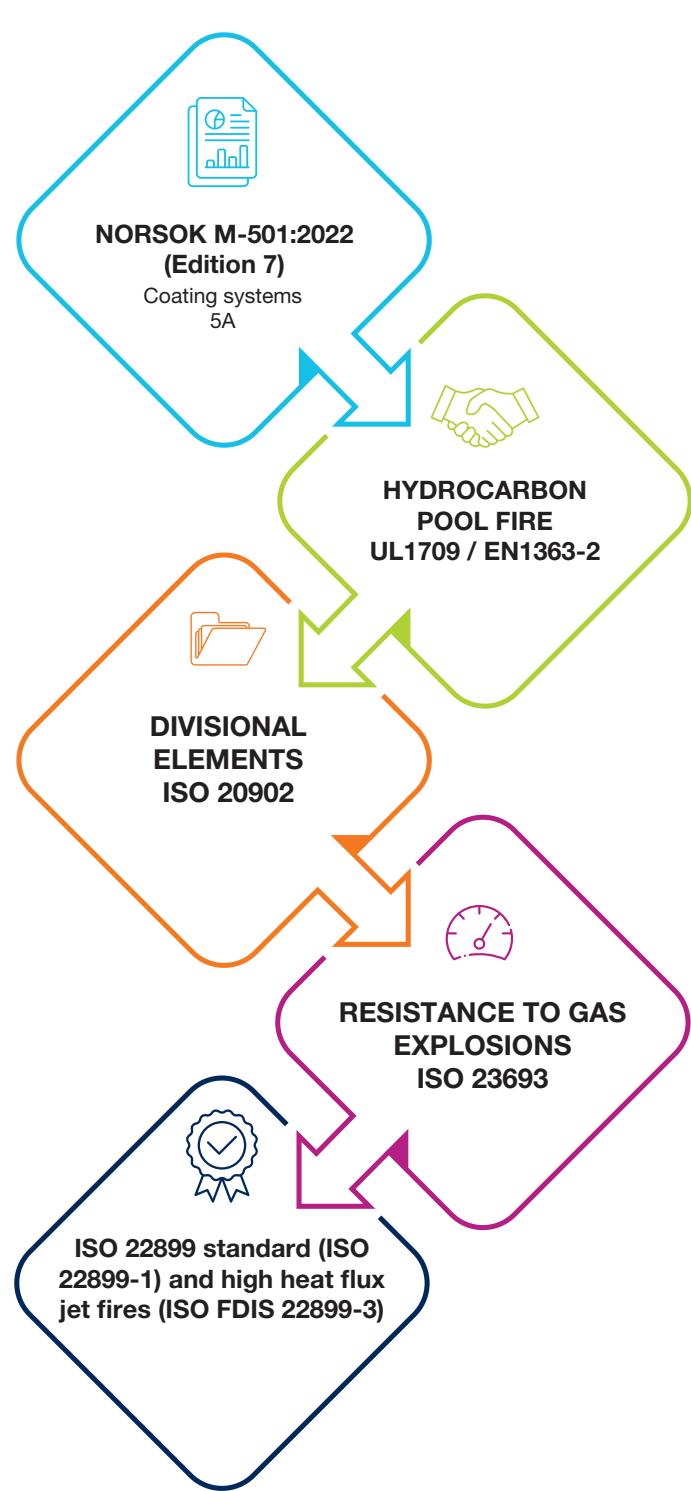
## Reliable performance

Chartek ONE can provide three hours of jet and pool fire protection across a wide operating temperature range, effective across all fire types.

\*\* Based upon a 60 minute jet fire scenario with a representative steel size for offshore oil and gas assets.

# One product that meets industry standards.

Chartek ONE meets the critical industry standards from NORSO M-501: 2022 (Edition 7) to ISO 22899.



Based on patented technology, Chartek ONE has been tested against critical industry standards after being formulated at our PFP Centre of Expertise in the UK, one of the world's largest UKAS-accredited PFP testing centres.



## 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.

**For more information,  
please scan the QR code:**



## About AkzoNobel

Since 1792, we've been supplying the innovative paints and coatings that help to color people's lives and protect what matters most. Our world class portfolio of brands – including International®, Sikkens and Interpon – is trusted by customers around the globe. We're active in more than 150 countries and use our expertise to sustain and enhance everyday life. Because we believe every surface is an opportunity. It's what you'd expect from a pioneering and long-established paints company that's dedicated to providing sustainable solutions and preserving the best of what we have today – while creating an even better tomorrow. Let's paint the future together.

**For more information,  
please scan the QR code:**



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