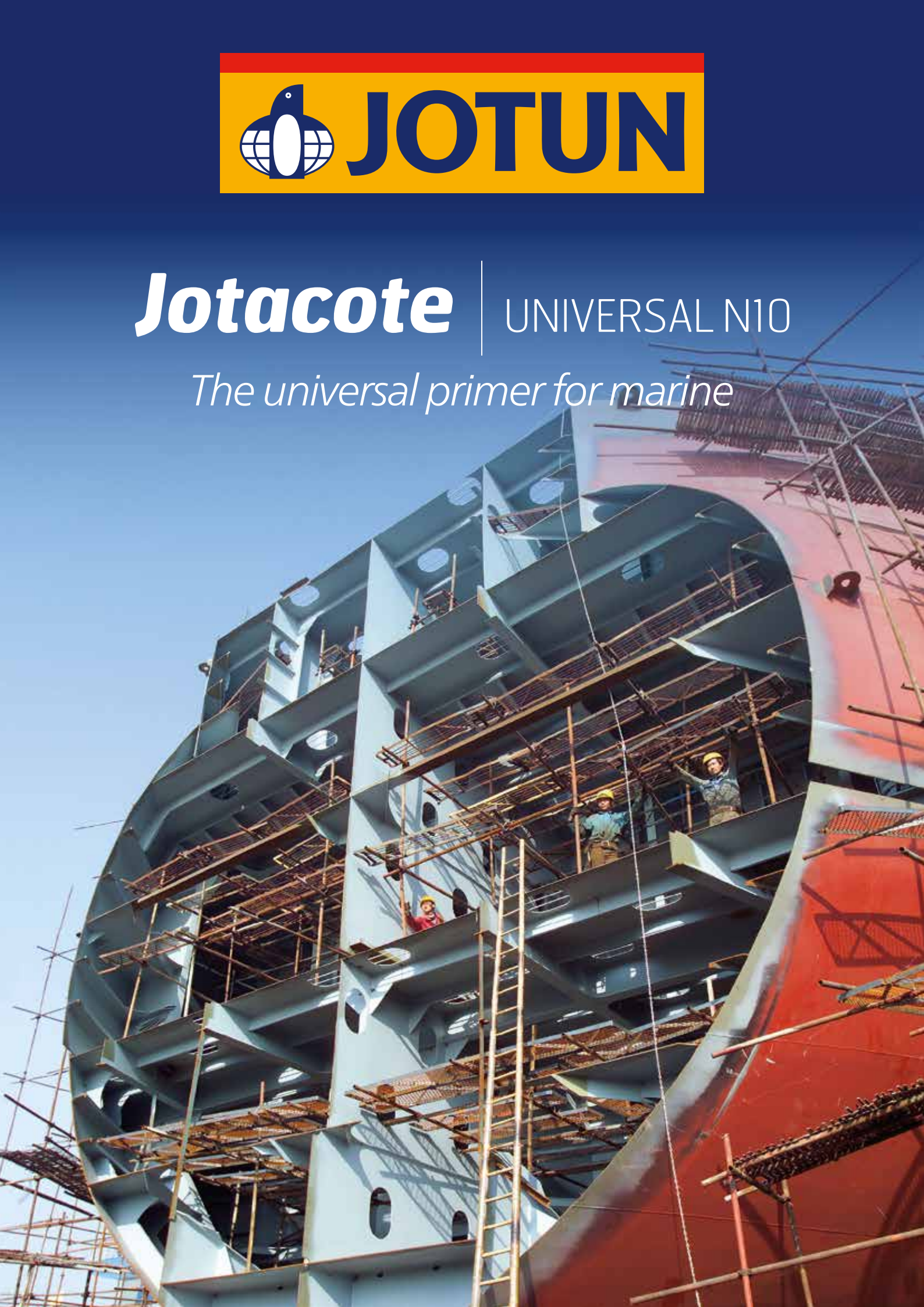




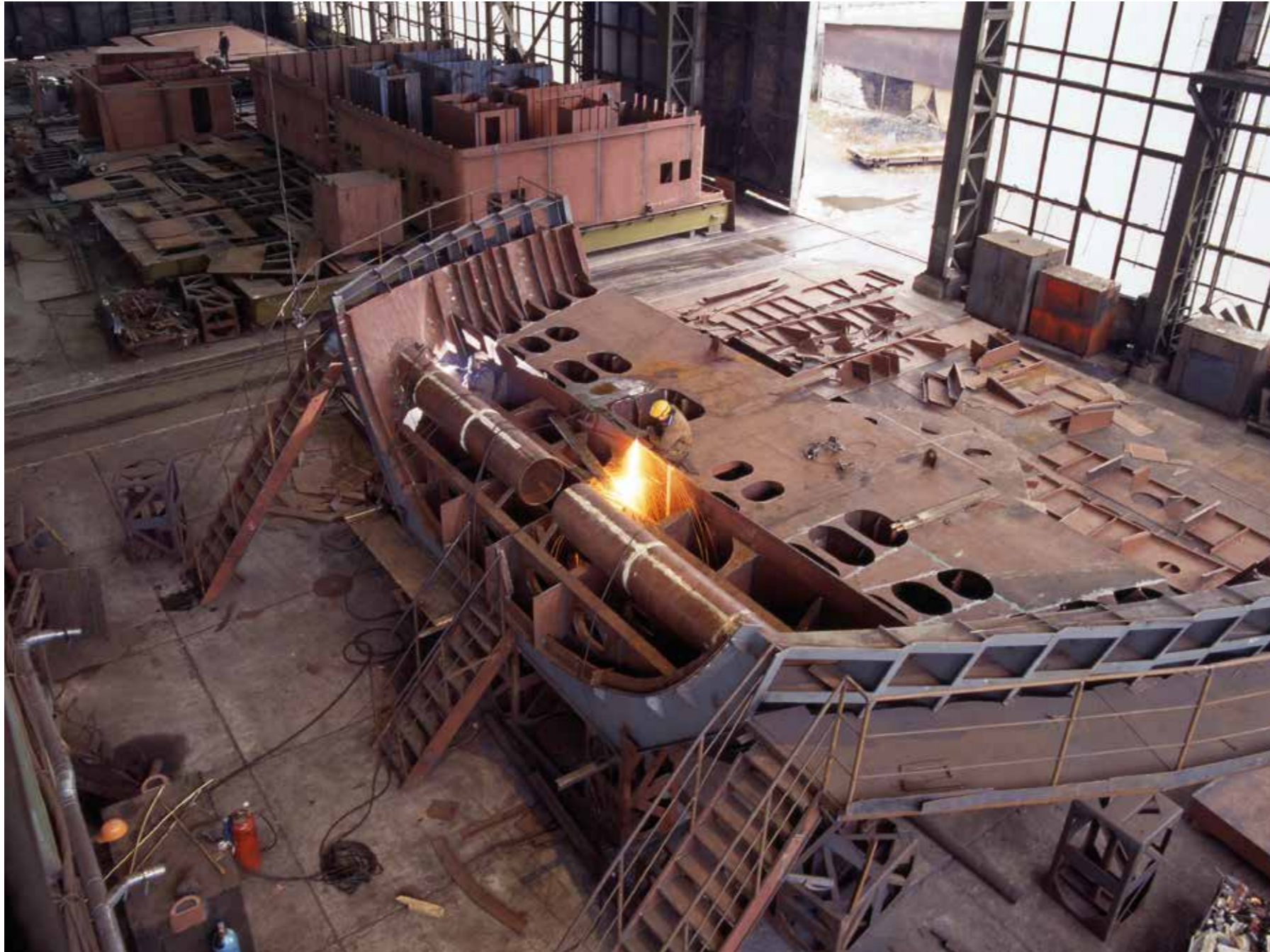
JOTUN

Jotacote | UNIVERSAL N10

The universal primer for marine



The new generation universal primer for marine



Jotacote | UNIVERSAL N10

Developed upon 10 successful years
with Jotacote Universal

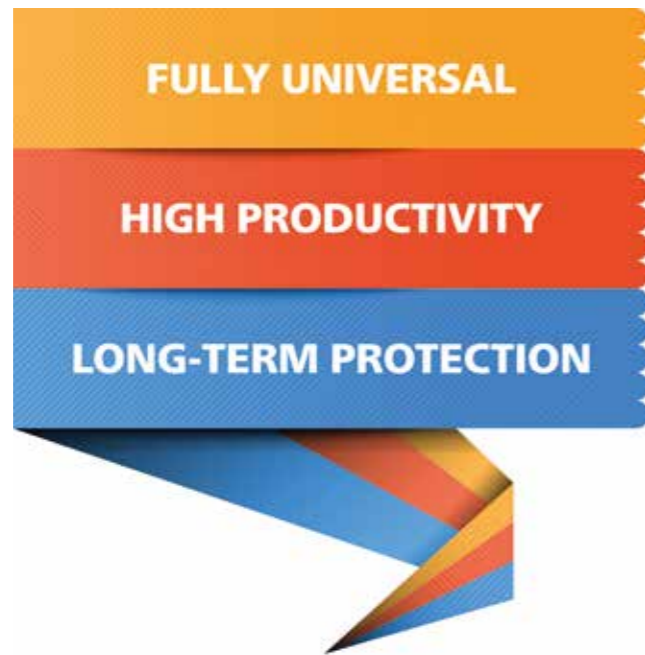
More than 300 million litres
applied on thousands of newbuildings

Improved efficiency

Proven to meet the latest
IMO Performance Standards for
Protective Coatings for Cargo Oil Tanks
and for
Protective Coatings for Water Ballast Tanks

Faster drying, faster curing, all year
– delivering greater economy and productivity
all round your vessel

Developed especially to meet the 3 key challenges of today's dynamic newbuilding market



Jotacote | UNIVERSAL N10

Built upon ten successful years experience with Jotacote Universal, this new generation universal primer incorporates the latest coatings technology.

Jotacote Universal N10 has been developed to meet the challenges for an all round primer in a changing market.

Jotacote Universal N10 combines three key features that ensure the best all round solution for both shipowners and shipyards.

FULLY UNIVERSAL

One primer for all areas of the vessel including water ballast tanks, crude oil tanks and cargo holds. Very good abrasion resistance.

HIGH PRODUCTIVITY

Jotacote Universal N10 cures fast at low temperatures and dries fast in all seasons. It is fast to handle and is compatible with a wide range of substrates and most generic types of coatings.

LONG-TERM PROTECTION

The specially selected binder package ensures optimum corrosion prevention with low life cycle costs protecting the ship owners' assets.

8 features linked to provide all round protection



ANYWHERE

Jotacote Universal N10 can be applied all round the vessel.

ANY CLIMATE

Jotacote Universal N10 can be applied in all seasons and climatic conditions and in temperatures as low as -15°C.

OPTIMUM PROTECTION – MAXIMUM EFFICIENCY

The universal nature of Jotacote Universal N10 combined with the finest protection capabilities, makes it the best solution for both shipowners and shipyards.

ANY TOPCOATS

Jotacote Universal N10 is very flexible – it can be overcoated with any generic coating.

RECOATING

Maximum flexibility – being fast drying allows short recoating intervals.

IMO PSPC APPROVED

Jotacote Universal N10 is approved to the latest IMO Performance Standards for both Protective Coatings for Cargo Oil Tanks of Crude Oil Tankers and Protective Coatings for Water Ballast Tanks – the standards designed to achieve a target coating lifetime of 15 years.

CHALLENGING SURFACES

Excellent adhesion properties allow application directly to a wide range of substrates:

- Power tool cleaned weld seams (St 2)
- Any intact shopprimer

- Gritblasted steel (Sa 2½)
- Galvanised steel
- Stainless steel
- Aluminium

Please contact your local Jotun TSS for detailed information on surface preparation.

THE FOUNDATION FOR ALL MAINTENANCE

Jotacote Universal N10 is compatible with all coatings used at subsequent maintenance thus simplifying systems and procedures.

It is the foundation that will ensure the long term protection of the vessel is right from the start of its life.

Developed for fast, all round, year round application



As new building markets expand into wider geographical areas, fresh challenges are presented placing even greater demands upon the yard and coatings manufacturer.

TEMPERATURE EXTREMES

Around the world new building yards range in their location from extreme heat of the South to long, severe cold winters down to -30°C in the North – each bringing their own challenges for the ship building business.

IMPROVING EFFICIENCY

Jotun's introduction of Jotacote Universal N10 heralds a breakthrough in primer development. It has been developed especially to greatly improve productivity whilst also increasing its protective qualities.

YEAR ROUND APPLICATION

There is one curing agent for use in all seasons, from -15°C up to 40°C.

As a user-friendly, all year round primer, productivity is increased, logistics are simplified and stock levels reduced.

FAST DRYING, FAST CURING

Jotacote Universal N10 dries fast even at low temperatures and cures up to 15% faster than the previous generation universal primer.

In the more extreme environments year round working can become a practicality, application times reduced, production speeds are increased with yard efficiency maximised.

Proven to meet IMO PSPC for Cargo Oil Tanks



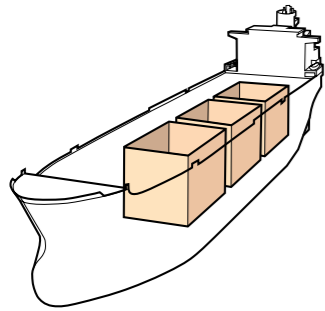
IMO Performance Standard (PSPC) for Cargo Oil Tanks (COT) of crude oil tankers

- The move to double-hull crude oil tankers resulted in a more aggressive corrosive environment.
- The IMO PSPC COT regulations for crude oil tankers of 5000 dwt at newbuilding require certain areas of the tanks be coated with 15 years of target useful coating life.

Jotacote Universal N10 – proved for use in COT according to PSPC MSC 288 (78)

- Proficient application of Jotacote Universal N10 in new building shipyards is designed to improve coating performance and potentially reduce the frequency and extent of coating in-service maintenance and repairs.
- The standardisation of PSPC requirements has the potential to improving coating quality and provide an opportunity to better control costs during construction and throughout the service life of the vessel.

Delivering solutions for greater economy and productivity all round your vessel



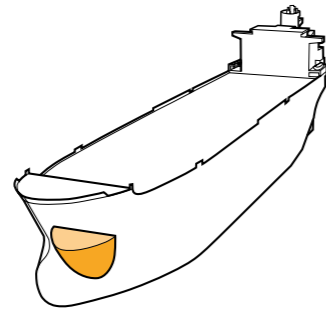
Cargo oil tanks

CHALLENGES

- Must conform to IMO MSC.288 (87) Performance Standard for Protective Coatings for water ballast tanks
- Difficult for application & inspection
- High temperature as a result of higher potential for corrosion

JOTACOTE UNIVERSAL N10

- Fully approved to IMO MSC 288 (87)
- Excellent protection in these aggressive corrosion environments
- High temperature resistance



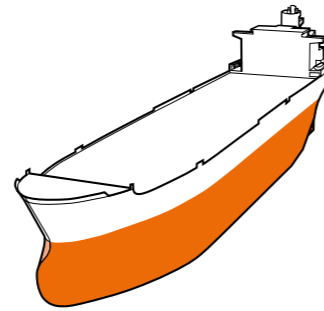
Water ballast tanks

CHALLENGES

- Must conform to IMO MSC.215 (82) Performance Standard for Protective Coatings for water ballast tanks
- Difficult for application & inspection
- Temperature gradient in water ballast tank of shuttle tankers

JOTACOTE UNIVERSAL N10

- Fully approved to IMO MSC 215 (82)
- Light colours allow easy application and excellent inspection conditions
- Very good against thermal stress
- Excellent anticorrosive properties



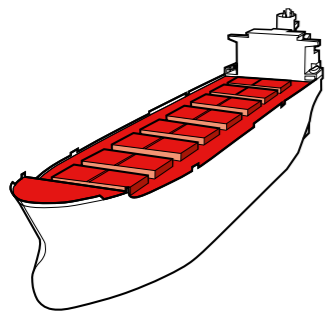
Underwater hulls

CHALLENGES

- Anticorrosive properties of primer
- Sound base for antifouling and fouling release systems
- Long term protection

JOTACOTE UNIVERSAL N10

- Excellent anticorrosive qualities
- Superior anti-abrasive quality
- Best for optimum hull protection



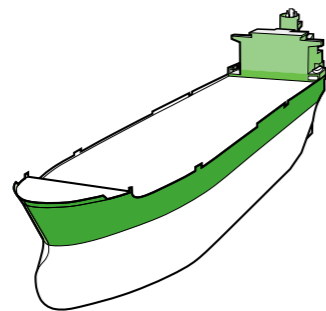
Decks

CHALLENGES

- Severe operating conditions
- Extremes of temperature
- High impact, mechanical damage
- Chemical and oil spillage

JOTACOTE UNIVERSAL N10

- Superior anti-abrasive quality
- Excellent anticorrosive qualities
- Reduces frequency of onboard maintenance
- Reduces repair costs at drydocking



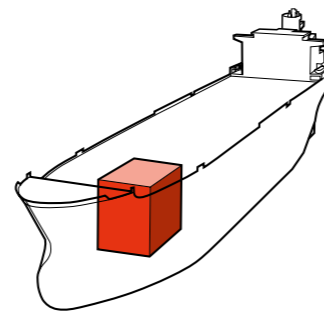
Topsides & superstructures

CHALLENGES

- Highly visible
- Durable cosmetic finish
- Lasting anticorrosive properties

JOTACOTE UNIVERSAL N10

- Base colours provide hiding power for topcoats
- Excellent anticorrosive qualities
- Any topcoat can be used



Cargo holds

CHALLENGES

- Mechanical impact
- Abrasion
- Exposure to salt spray/moisture
- Structural integrity

JOTACOTE UNIVERSAL N10

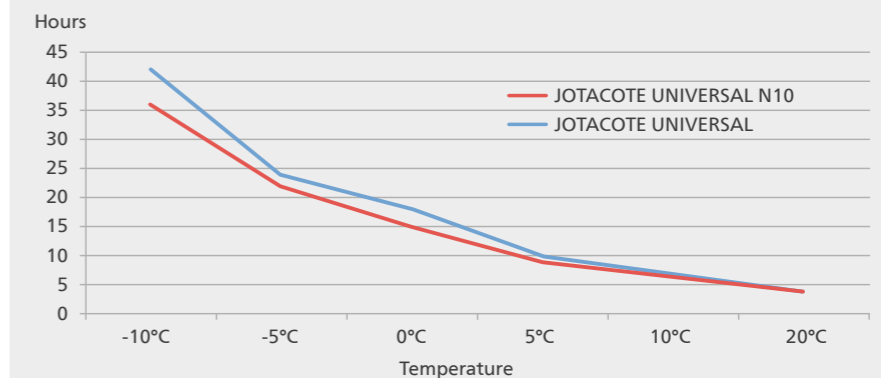
- Superior anti-abrasive quality
- All required grain certificates
- Anticorrosive properties protect vessel structure
- Certifications for transportation of food

Technical information

TECHNICAL DATA

DFT range	75 – 300 µm					
Volume solid	72%					
Temperature range	-15°C – 40°C					
Mixing ratio by volume	3 parts comp. A 1 part comp. B					
Pot life (23°C)	2 hours					
Drying times	-10°C	-5°C	0°C	5°C	10°C	23°C
Surface dry	26h	14h	10h	6h	5h	2h
Dry to recoat	36h	22h	15h	9h	7h	4h
Colours available	Red, Grey, Black, Buff, Aluminium, Aluminium red tone					

DRYING TO HANDLING TIMES



A global provider of coatings



Jotun is one of the world's leading manufacturers of paints, coatings and powder coatings.

We have 69 companies and 36 production facilities on all continents, and are represented in more than 90 countries with our network of agents, branch offices, distributors and sales offices around the world.

Our operations cover development, production, marketing, R&D and sales of paints and coatings to protect and decorate surfaces in residential, shipping and industrial markets.

Jotun is organised in four segments and seven geographical regions with its head office located in Sandefjord, Norway.

PROTECTIVE COATINGS

Our protective coatings are protecting assets in industries such as offshore, energy, infrastructure and hydrocarbon processing.

MARINE COATINGS

As the world's leading provider of marine coatings we supply to ship owners, management companies and others for newbuilding, seastock and dry-dock.

POWDER COATINGS

Our powder coatings are supplied to manufacturers of appliances, furniture, building components, pipelines and general industries.

DECORATIVE PAINTS

Our interior and exterior paints are being used by consumers and professionals worldwide, for protection and decoration.

UNIFORM STANDARD ACROSS THE GLOBE

- Easy to exchange trained technical personnel across national borders and multi-national projects.
- Compulsory training for all technical and sales personnel in marine and protective segments. Most of our coating advisors and technical personnel have FROSIO and/or NACE certification.
- Same competence in maintaining company standard procedures globally.



Jotun GreenSteps

FOR A MORE COLOURFUL WORLD, WE ALL NEED TO BE A LITTLE GREENER

Jotun recognises the responsibility it has to the environment and has established its own GreenSteps programme.

Through the GreenSteps programme we address market demand for more sustainable coatings solutions.



Jotun Marine Coatings and Jotun Protective Coatings offices worldwide

Legal Jotun entities worldwide are listed. For details of Branch offices and Jotun representation in countries not listed, please visit jotun.com

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Jotun Protects Property