



# PROTECTIVE COATINGS FOR OFFSHORE STRUCTURES



# A global provider of coatings



We have 71 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.

## MARINE COATINGS

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

## PROTECTIVE COATINGS

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

## 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





# OFFSHORE – THE CHALLENGE



High performance coatings provide an extremely beneficial return on investment

Owners and operators know that all offshore structures represent a valuable asset as both capital expenditure (CAPEX) and source of ongoing revenue.

The balance between CAPEX and return on investment is an important aspect, however the Operating Expenditure (OPEX) is also a factor that strongly influences how fast one will have return on investment. By striking the right balance between investing more up-front one will most likely save on OPEX in the future.

Another factor also needs to be considered. Due to technological advances many offshore structures are reaching the end of their design life if they have not already done so. This scenario is also likely to occur in the future as a result of technological advances.

By investing a small amount during construction in high quality coatings solutions and running a good maintenance programme, it can be argued that there will be savings in OPEX cost and downtime will be reduced to a minimum. And in some cases even saving major investment in refurbishing installations that have exceeded their design life.



# THE SOLUTION

Jotun has been a leading provider of high-quality coating systems for stationary and floating steel structures for almost a century.

From supplying the first developments in the offshore sector in the southern part of the North Sea, Jotun has grown to become a truly global supplier of high-performance coating solutions to the offshore industry, with over 40 years experience and a well proven track record.

In our continuous efforts to further meet the challenges in protecting offshore structures we have developed innovative, lasting and economic solutions to virtually any scenario, including:

Corrosion protection coatings

Tank linings

Passive Fire Protection

High-temperature coatings

Antifouling solutions

Non-skid deck coatings





# GLOBAL EXPERIENCE – LOCAL PRESENCE



The highest number of  
world class technical  
personnel in the industry

## Technical Support

Jotun provides a comprehensive technical support function.

At every Jotun location there are highly trained and experienced coatings specialists available to assess and analyse each customer's particular protective coating requirements. They work as a team, in close communication, both together and with their customers.

With direct access to the Jotun Technical Department, they bring an unrivalled wealth of knowledge and experience to solve even the most complex protection problems.

They apply the same uncompromising standards, whether selecting a range of alternative basic systems or tailor-made solutions.

## Knowledge

Jotun places great emphasis on training and education worldwide to constantly improve employee knowledge of Jotun products and systems and capitalise upon the practical experience gained in all corners of the world by Jotun technical personnel.

Technical service personnel are certified to FROSIO or NACE certification standard. They provide coating design advice, site surveys, written specifications and plan the actual coating work. They ensure surface preparation and application of coating systems are to the standards which secure lasting protection.

Jotun Paint School is an established system for education and training for management, technical support staff and corrosion engineers for construction facilities, contractors, engineering consultants and oil and mining companies.



# OUR KEY OFFSHORE BRANDS

## **Penguard**

The Penguard products comprise different epoxy technologies for tailored or universal use, applied alone or as a part of a coating system. The Penguard products offers new construction coatings for offshore oil installations exposed to the harshest conditions.

## **Jotachar** *the time saving solution*

Jotachar is a range of highly durable epoxy intumescent coatings designed for hydrocarbon fire protection of offshore structures, divisions and process vessels. The Jotachar range includes an industry first mesh free epoxy PFP system for Jet Fire scenarios.

Jotachar, the time saving solution.

## **Jotatemp**

Jotatemp 650 is a surface tolerant heat resistant coating providing a corrosion barrier when used to protect steelwork beneath thermal insulation (CUI) in areas with wet and dry cyclic conditions, including thermal shock. Especially suitable for maintenance of insulated and un-insulated steel such as pipe exterior, process vessels etc. in highly corrosive environments

## **Hardtop**

Hardtop is a range of two component topcoats that, in addition to protecting the anti corrosive primer also gives properties like gloss retention, flexibility and chemical resistance. Whatever demand you have for a topcoat you will find it in the Hardtop range of products.

## **Resist**

The Resist range of products comprises silicate binders and high quality zinc dust in various combinations giving a solid foundation for long lasting coating systems. This includes tailored variants for offshore oil installations exposed to the harshest conditions.

## **Baltoflake**

Baltoflake is Jotun's range of glassflake reinforced polyester coatings – outperforming traditional protection. The Baltoflake brand represents extremely abrasion resistant and fast curing anticorrosive coatings, ideal for splash zones and immersed areas. More than 30 years proven track record on offshore installations in the North Sea.

## **SeaQuantum** *The ultimate fuel saver*

SeaQuantum is the world's leading brand of silyl acrylate technology antifouling. Applied to more than 7000 vessels and static installations, it provides excellent fouling protection and incomparable hull performance for up to 90 months. The SeaQuantum range consists of products for a variety of different needs.

SeaQuantum – the ultimate fuel saver.

## **Jotamastic**

Jotamastic is the market's first choice for long lasting protection on aged steel and surfaces without optimal preparation, thus saving time and money during the maintenance process. The Jotamastic brand has more than 25 years proven track record in the harshest environments.

## **Marathon**

The Marathon range offers high build solutions with excellent abrasion resistance, making them well suited for high wear and tear areas such as splash zones, walkways, helidecks etc.

## **Barrier**

The Barrier range of products comprises epoxy technologies and high quality zinc dust in various combinations giving a solid foundation for long lasting coating systems. This includes tailored variants for offshore oil installations exposed to the harshest conditions.

## **SeaLion**

Advanced Nanorepellent Technology fouling release for offshore. Take fouling control with SeaLion, Jotun's biocide free antifouling. SeaLion represents one of the most advanced fouling release technologies on the market today and fulfils different needs in the offshore market. The smooth surface is easy to clean and simplifies underwater inspections. SeaLion Repulse is Jotun's third generation biocide free FRC and new SeaLion Resilient has been specifically designed to withstand mechanical damage.



Deepsea Stavanger



Asgard A



# AN ENVIABLE TRACK RECORD



Proven coating systems with a 40 year track record of excellence



## NORSOK

As proof of protective performance, a number of Jotun coating systems have been tested and pre-qualified to NORSOK standards. They have a track record of excellent results over the last 40 years, as stand alone systems and in combination with cathodic protection.

NORSOK M-501 specification verifies the durability of various painting systems and describes a set of pre-qualification tests to be carried out by an independent test laboratory with very specific and strict acceptance criteria.

Jotun coating systems for the offshore industry have earned their place as reliable, high performance, cost effective solutions to the protection of offshore structures.

## Ekofisk Industrial Heritage

ConocoPhillips, who currently operates the Ekofisk field, chose Jotun quality offshore maintenance coating systems for their 18 separate platforms. Especially cost beneficial is the Baltoflake high build polyester glassflake system which documents more than 30 years of excellent corrosion protection of platform legs and the underside of the platform decks.



*For a full list of Jotun coating systems pre-qualified to NORSOK standards go to [jotun.com](http://jotun.com)*



# A SELECTION OF STRUCTURES PROTECTED BY JOTUN SYSTEMS





# Marine and protective coatings offices worldwide

Legal Jotun entities world wide are listed. For details of Branch offices and Jotun representation in countries not listed, please visit [jotun.com](http://jotun.com)

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Jotun Protects Property