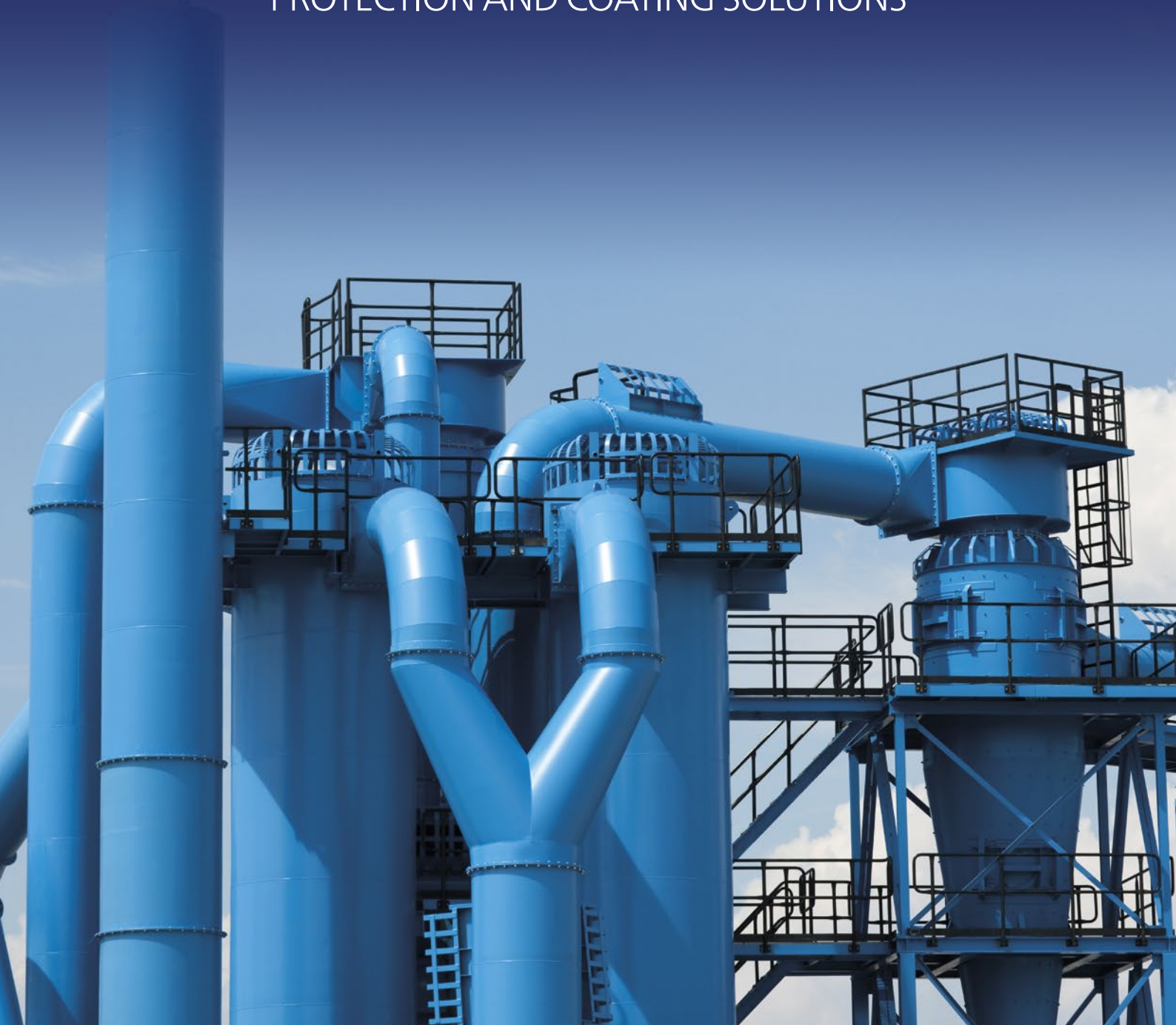
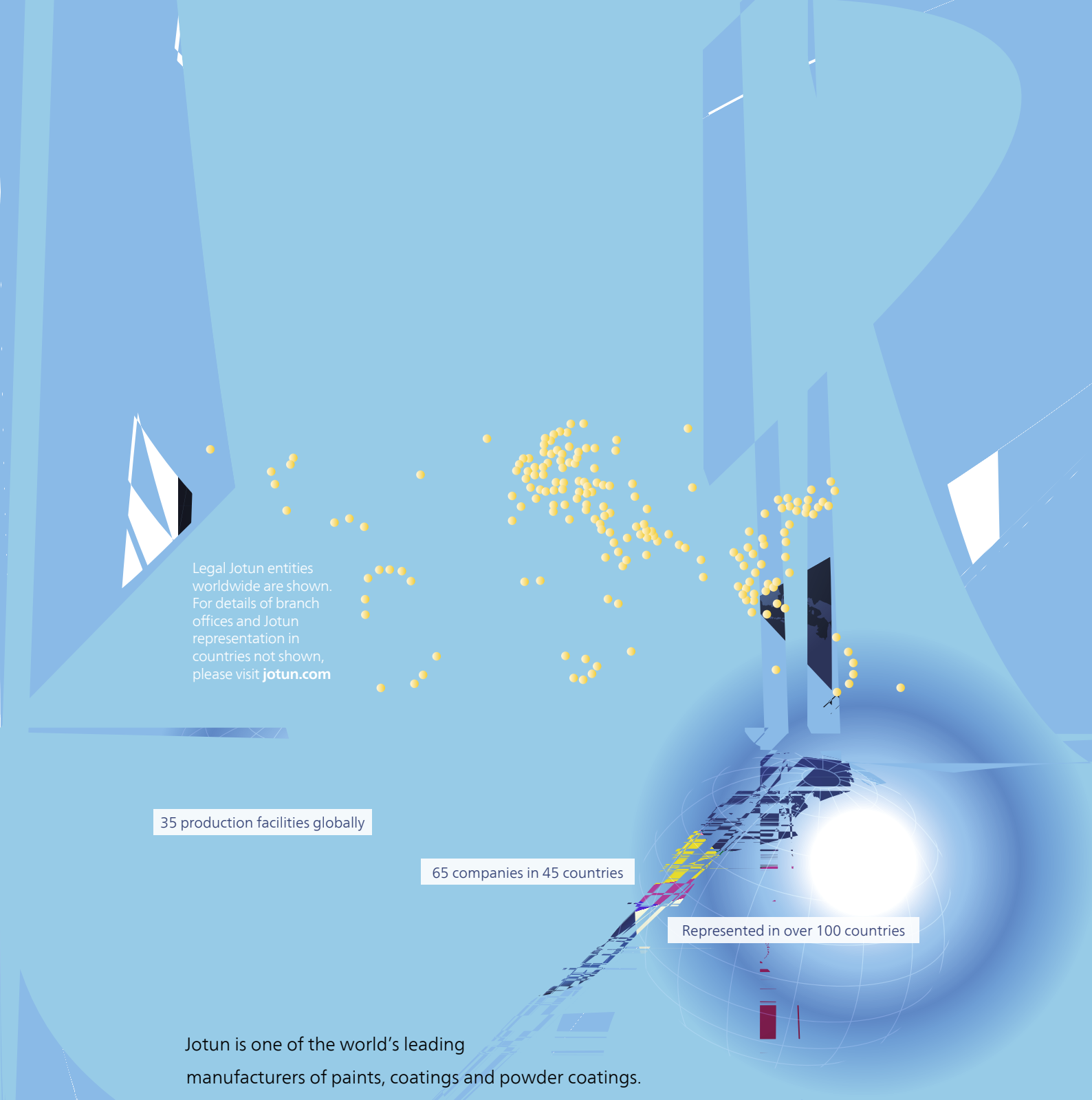
JOTUN

Jotun Protects Property

HPI

HYDROCARBON PROCESSING INDUSTRY CONCEPT
PROTECTION AND COATING SOLUTIONS





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

We have 65 companies in 45 countries and 35 production facilities in 21 countries on all continents, and are represented in over 100 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's HPI Concept

PROTECTING YOUR INVESTMENT IN PLANT AND PEOPLE

Concept thinking

- Our mission is to identify and focus on the needs of our customers by offering practical, easy to use products, proven to provide solutions wherever protection is in demand.
- Jotun works as a partner with its clients helping to extend asset life and improving health and safety whenever possible.

For Jotun the hydrocarbon processing industry (HPI) includes oil and gas facilities, tank farms, fertiliser plants and chemical plants. All have both similar and specific needs for which we can provide protection.

HPI values: time, environment and safety = economy

1. HSE – Health, Safety, Environment

Good HSE practice benefits on-site safety of both site and personnel. The right coating selection provides improved safety and working conditions, and ensures environmental legislation is met or exceeded.

2. Value of time

Jotun's development of quicker and better coating solutions that are optimal for any given project are designed to deliver potential improvements in profitability and faster return of the site to service.

3. Life cycle

The longer the lifetime of a coating the greater potential for savings. Correct choice of coating system can ensure time saving benefits and a correct lifetime of the system, reduce maintenance and shutdown time and less chance of system failure.

Tank exteriors

PRESENTING A QUALITY IMAGE TO THE PUBLIC

Tanks represent the most visible asset to the general public.

A cosmetically attractive tank demonstrates to the local community that they are well cared for and safe.

Hardtop

The Hardtop brand is our premium and ultra premium topcoats range. The topcoat, in addition to protecting the anticorrosive paint system, beautifies your asset.
The Hardtop range comprises products where high performance can be expected for a long period of time.

Tank linings

CHEMICAL RESISTANCE / PRESSURE

Choosing the correct product technology is one part of the selection process.

Each product has its different advantages beyond chemical resistance such as back to service quickly.

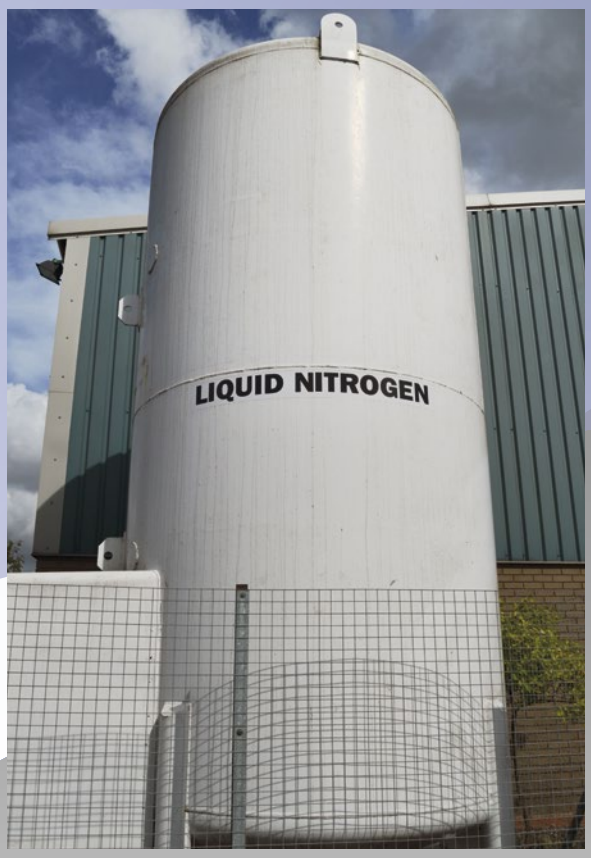
TANK CONTENT Which paint to choose when?

ZINC SILICATES
- Alcohols
- Ketones
- Other solvents

VINYL ESTERS
- Biofuels
- Acids
- Aggressive chemicals

EPOXIES
- Alkaline solutions
- Some biofuels
- Water in various forms
- Phenolic epoxies used for higher temperatures
- Oils (veg & mineral: note acid factors)

Pressure vessels are a complicated area to protect. Since the process may not be 100% known a secure solution is needed.



Tankguard

Tankguard comprises a range of products to cover all needs for the protection of tanks containing chemicals, including long term storage, higher temperatures and up to 160°C crude oil. To ensure the best results always discuss temperatures and chemical content with our technical experts.

Available on the App Store

Jotun's Chemical Resistance List can be viewed online or as an App.

PFP – Passive Fire Protection

MESH FREE EPOXY PASSIVE FIRE PROTECTION

HPI assets and personnel are at significant risk from explosion and hydrocarbon fires. Without passive fire protection these incidents can escalate rapidly, leading to loss of life or injury, damage to assets, plant shutdown or interruption to production.

For passive fire protection the challenge has been to design an epoxy PFP with a low installed weight that removes the requirement for additional mesh reinforcement combined with the fastest possible installation.
Low cost solutions such as concrete and lightweight cementitious materials are often unable to meet the requirements for long term corrosion protection, durability and low lifecycle cost.
Traditional epoxy PFP materials often need additional mesh reinforcement to guarantee certified performance.
Any requirement to install mesh introduces risks associated with omission or incorrect installation.
Jotun's Jotachar is the first mesh free epoxy solution for all fire scenarios.

Time consuming mesh containing PFP – mesh preparation and application

Jotachar

Jotachar is a mesh free epoxy solution for all fire scenarios.

- Fastest installation, the ultimate time saving solution
- Lightweight solution, reducing engineering impact in weight sensitive areas
- Greater corrosion protection ensuring long term performance
- Low life cycle cost
- Low maintenance cost
- Easiest installation for any maintenance requirement
- Low water absorption gives high durability
- Highly abrasion resistant to withstand damage during transport and erection

Application of time saving mesh free Jotachar

Corrosion

CORROSION UNDER INSULATION

Corrosion under insulation is one of the most serious areas of concern for a plant operator. Because it cannot be seen, the risk of incident grows.

A safe and secure solution can be provided whether for new construction or maintenance.

With the correct choice of coatings CUI can be alleviated.
Talk to Jotun about our range of products to solve these challenges.

Jotatemp

Jotatemp products are advanced solutions to provide long term corrosion protection – in service or at new construction.

CORROSION UNDER CEMENTITIOUS FIRE PROTECTION

Under cementitious fire protection products corrosion can often be found. Jotun has coatings designed to prevent this occurring.

Cementitious based PFP materials have been widely used in the hydrocarbon processing industries. Although initial installation cost is low, they offer no protection for the steel which will start to corrode invisibly under the Cementitious Fire Protection, ultimately creating a safety issue. This can be prevented by using our Mesh Free Epoxy Fire Protection system, which will provide optimised corrosion protection as well as passive fire protection for the design life of the structure.

Jotachar

Jotachar 1709 mesh free is easier to install, significantly reduces project completion time and maintenance downtime and has high resistance to freeze-thaw cycles in challenging environments.

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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