Jotacote UNIVERSAL N10
The universal primer for marine
The new generation universal primer for marine

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

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.

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

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.
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.

**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 (B2)
- 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 (B2)
- 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 DATA**

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

---

**DRYING TO HANDLING TIMES**

![Graph](image-url)
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.

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.