



# New Guard Coatings Group

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The information herewith is given with the best of New Guard Coatings Group knowledge.

Rights are reserved to change and update the data without notice.

This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

• USA •



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## Jotacote Universal N10

### Product description

This is a two component polyamine cured pure epoxy coating. It is a high solids, high build, abrasion resistant product. Available with curing agents for standard, and for quick drying (QD) properties. Specially designed as a universal, all round, all year, new building coating where fast dry to handle is required. Can be used as primer, mid coat, finish coat or as single coat system in atmospheric and immersed environments. Suitable for properly prepared aluminum, carbon steel, galvanized steel, shop primed steel and stainless steel substrate. It can be applied at sub zero surface temperatures.

### Typical use

Marine:

Exterior and interior areas, including outside hulls, superstructures, decks, cargo holds and water ballast tanks. This product has very high flexibility making it specially suitable for the temperature variation experienced in crude oil, chemical and shuttle tankers. Approved for PSPC cross over testing with a wide range of shop primers.

### Approvals and certificates

Certified in accordance with IMO Res.215(82) – PSPC Water Ballast Tanks  
Certified in accordance with IMO Res.288(87) – PSPC Crude Oil Tanks

When used as part of an approved scheme, this material has the following certification:  
- Low Flame Spread in accordance with EU Directive for Marine Equipment. Approved in accordance with parts 5 and 2 of Annex 1 of IMO 2010 FTP Code, or Parts 5 and 2 of Annex 1 of IMO FTPC when in compliance with IMO 2010 FTP Code Ch. 8

Consult your Jotun representative for details.

Additional certificates and approvals may be available on request.

### Colors

aluminum, aluminum red toned, black, buff, grey, red, bronze

## Product data

Property	Test/Standard	Description	
<b>Standard grade</b>			
Solids by volume	ISO 3233	72 ± 2 %	
Gloss level (GU 60 °)	ISO 2813	matt (0-35)	
Flash point	ISO 3679 Method 1	86 °F (30 °C)	
Density	calculated	1.4 kg/l	
<b>Region</b>	<b>Regulation</b>	<b>Test Standard</b>	<b>VOC Value</b>
US	CARB(SCM)2020 / SCAQMD rule 1113	Calculated	2.06 lbs/gal

**QD grade**

Solids by volume	ISO 3233	72 ± 2 %
Flash point	ISO 3679 Method 1	
Density	calculated	88 °F (31 °C) 1.4 kg/l

<b>Region</b>	<b>Regulation</b>	<b>Test Standard</b>	<b>VOC Value</b>
US	CARB(SCM)2020 / SCAQMD rule 1113	US EPA Method 24	2.19 lbs/gal

The provided data is typical for factory produced products, subject to slight variation depending on color.

Gloss description: According to Jotun Performance Coatings' definition.

## Film thickness per coat

**Typical recommended specification range**

**Standard grade**

Dry film thickness	3 mils (75 µm)	12 mils (300 µm)
Wet film thickness	4 mils (105 µm)	16 mils (415 µm)
Theoretical spreading rate	390 ft <sup>2</sup> /gal (9.6 m <sup>2</sup> /l)	100 ft <sup>2</sup> /gal (2.4 m <sup>2</sup> /l)

**QD grade**

Dry film thickness	3 mils (75 µm)	- 12 mils (300 µm)
Wet film thickness	4 mils (105 µm)	16 mils (415 µm)
Theoretical spreading rate	391 ft <sup>2</sup> /gal (9.6 m <sup>2</sup> /l)	98 ft <sup>2</sup> /gal (2.4 m <sup>2</sup> /l)

## Surface preparation

**Surface preparation summary table**

<b>Substrate</b>	<b>Surface preparation</b>	
	<b>Minimum</b>	<b>Recommended</b>
Carbon steel	St 2 (ISO 8501-1) or SSPC SP-2	Sa 2½ (ISO 8501-1) or NACE No. 2 / SSPC SP-10
Stainless steel	The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface.	Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile.

Aluminum	The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface.	Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile.
Galvanized steel	The surface shall be clean, dry and appear with a rough and dull profile.	Sweep blast-cleaning using non-metallic abrasive leaving a clean, rough and even pattern.
Shop primed steel	Dry, clean and intact shop primer.	Sweep blasted or alternatively blasted to Sa 2 (ISO 8501-1) or SP 6 / NACE No. 3 (SSPC-VIS 1) of at least 70 % of the surface.
Coated surfaces	Clean, dry and undamaged compatible coating	Sa 2½ (ISO 8501-1) or NACE No. 2 / SSPC SP-10

Optimum performance, including adhesion, corrosion protection, heat resistance and chemical resistance is achieved with recommended surface preparation.

## Application

### Application methods

The product can be applied by

- Spray: Use airless spray.
- Brush: Recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness.  
For QD version, brush is not recommended for temperatures above 15 °C.
- Roller: May be used for small areas. Not recommended for first primer coat. Care must be taken to achieve the specified dry film thickness.  
For QD version, roller is not recommended for temperatures above 15 °C.

### Product mixing ratio (by volume)

Jotacote Universal N10 Comp A	3 part(s)
Jotacote Universal N10 Comp B	1 part(s)
Jotacote Universal N10 Comp A	3 part(s)
Jotacote Universal N10 QD Comp B	1 part(s)

### Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 17

### Guiding data for airless spray

Nozzle tip (inch/1000):	17-27
Pressure at nozzle (minimum):	150 bar/2100 psi

## Drying and Curing time

Substrate temperature	14 °F	23 °F	32 °F	41 °F	50 °F	73 °F	104 °F
<b>Standard grade</b>							
Surface (touch) dry	26 h	14 h	10 h	6 h	5 h	2 h	1 h
Walk-on-dry	72 h	34 h	24 h	14 h	10 h	5 h	2 h
Dried to over coat, minimum	36 h	22 h	15 h	9 h	7 h	4 h	2 h
Dried/cured for service			21 d	14 d	10 d	7 d	3 d
Dried/cured for immersion	14 d	7 d	4 d	3 d	2 d	1 d	12 h
<b>QD grade</b>							
Surface (touch) dry	17 h	10 h	7 h	4 h	3 h	1 h	
Walk-on-dry	40 h	25 h	20 h	10 h	7.5 h	3 h	
Dried to over coat, minimum	26 h	17 h	10 h	7 h	5 h	2 h	
Dried/cured for service			21 d	14 d	10 d	7 d	
Dried/cured for immersion	12 d	6 d	4 d	3 d	2 d	1 d	

For maximum overcoating intervals, refer to the Application Guide (AG) for this product.

Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Walk-on-dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physical damage.

Dry to over coat, minimum: The recommended shortest time before the next coat can be applied.

Dried/cured for service: Minimum time before the coating can be permanently exposed to the intended environment/medium.

Dried/cured for immersion: Minimum time before the coating can be permanently immersed in sea water.

## Induction time and Pot life

Paint temperature	73 °F
<b>Standard grade</b>	
Induction time	10 min
Pot life	1.5 h
<b>QD grade</b>	
Induction time	10 min
Pot life	1 h

## Heat resistance

	Temperature	
	Continuous	Peak
Dry, atmospheric	120 °C	140 °C
Immersed, sea water	60 °C	70 °C
Immersed, crude oil	80 °C	90 °C

Peak temperature duration max. 1 hour.

The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures.

Note that the coating will be resistant to various immersion temperatures depending on the specific chemical and whether immersion is constant or intermittent. Heat resistance is influenced by the total coating system. If used as part of a system, ensure all coatings in the system have similar heat resistance.

## Product compatibility

Depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product. Some examples are shown below. Contact Jotun for specific system recommendation.

Previous coat: inorganic zinc silicate shop primer, epoxy, zinc epoxy, zinc silicate

Subsequent coat: acrylic, alkyd, epoxy, polyurethane, polysiloxane, vinyl epoxy, epoxy mastic, vinyl epoxy

## Packaging (typical)

	Volume (liters)	Size of containers (liters)
Jotacote Universal N10 Comp A	15	20
Jotacote Universal N10 Comp B	5	5
Jotacote Universal N10 QD Comp B	5	5

The volume stated is for factory made colors. Note that local variants in pack size and filled volumes can vary due to local regulations.

## Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, shaded, cool, well-ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

### Shelf life at 73°F (23 °C)

Jotacote Universal N10 Comp A	48 month(s)
Jotacote Universal N10 Comp B	48 month(s)
Jotacote Universal N10 QD Comp B	48 month(s)

In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

## Note

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Jotun's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Jotun representative for approval before commencing the work.

## Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

## Color variation

When applicable, products primarily meant for use as primers or antifouling may have slight color variations from batch to batch. Such products and epoxy based products used as a finish coat may chalk when exposed to sunlight and weathering.

Color and gloss retention on topcoats/finish coats may vary depending on type of color, exposure environment such as temperature, UV intensity etc., application quality and generic type of paint. Contact your local Jotun office for further information.

## Disclaimer

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

## Jotacote Universal S120

### Product description

This is a two component polyamine cured epoxy coating based on Covallox Technology. It is a high build, solvent free product with extremely low VOC emissions. It has exceptionally high adhesion strength and high flexibility. It offers unrivalled anticorrosive properties, ensuring longer lasting steel preservation. Specially designed as a universal, all round, new building coating where low VOC emission is required and where long-term anticorrosion performance is expected. Can be used as primer, mid coat, finish coat or as single coat system in atmospheric and immersed environments. Suitable for properly prepared aluminum, carbon steel, galvanized steel, shop primed steel and stainless steel substrate.

### Typical use

#### Marine:

Recommended for exterior and interior areas, including outside hulls, superstructures, decks, cargo holds and water ballast tanks.

This product is PSPC approved for both two coat and single coat application in water ballast tanks which helps to improve production efficiency. Approved for PSPC cross over testing with a wide range of shop primers.

#### Protective:

Recommended for offshore environments, including splash zones, refineries, power plants, bridges, buildings, mining equipment and general structural steel. Approved for ISO 12944-9, CX environment.

### Approvals and certificates

Certified in accordance with IMO Res.215(82) – PSPC Water Ballast Tanks  
One coat (1 x 320 µm) system and two coat (2 x 160 µm) system  
Pre-qualified in accordance with NORSOK M-501 in selected systems

When used as part of an approved scheme, this material has the following certification:

- Low Flame Spread in accordance with EU Directive for Marine Equipment. Approved in accordance with parts 5 and 2 of Annex 1 of IMO 2010 FTP Code, or Parts 5 and 2 of Annex 1 of IMO FTPC when in compliance with IMO 2010 FTP Code Ch. 8

Additional certificates and approvals may be available on request.

### Colors

buff, light red, grey, light green, light grey

Other colours available upon request

### Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	97 ± 2 %
Gloss level (GU 60 °)	ISO 2813	gloss (70-85)
Flash point	ISO 3679 Method 1	212 °F (100 °C)
Density	calculated	1.6 kg/l

Region	Regulation	Test Standard	VOC Value
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US

CARB(SCM)2020 / SCAQMD rule 1113

Calculated

0.07 lbs/gal

The provided data is typical for factory produced products, subject to slight variation depending on color.

Gloss description: According to Jotun Performance Coatings' definition.

## Film thickness per coat

### Typical recommended specification range

Dry film thickness	6 mils (150 µm)	20 mils (500 µm)
Wet film thickness	6 mils (155 µm)	20 mils (515 µm)
Theoretical spreading rate	260 ft <sup>2</sup> /gal (6.5 m <sup>2</sup> /l)	80 ft <sup>2</sup> /gal (1.9 m <sup>2</sup> /l)

## Surface preparation

### Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Carbon steel	St 2 (ISO 8501-1) or SSPC SP-2	Sa 2½ (ISO 8501-1) or NACE No. 2 / SSPC SP-10
Aluminum	The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface.	Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile.
Galvanized steel	The surface shall be clean, dry and appear with a rough and dull profile.	Sweep blast-cleaning using non-metallic abrasive leaving a clean, rough and even pattern.
Shop primed steel	Dry, clean and intact shop primer.	Sweep blasted or alternatively blasted to Sa 2 (ISO 8501-1) or SP 6 / NACE No. 3 (SSPC-VIS 1) of at least 70 % of the surface.
Stainless steel	The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface.	Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile.

Coated surfaces	Clean, dry and undamaged compatible coating	Sa 2½ (ISO 8501-1) or NACE No. 2 / SSPC SP-10
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Optimum performance, including adhesion, corrosion protection, heat resistance and chemical resistance is achieved with recommended surface preparation.

## Application

### Application methods

The product can be applied by

Spray:	Use airless spray.
Brush:	Recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness.
Roller:	May be used for small areas. Not recommended for first primer coat. Care must be taken to achieve the specified dry film thickness.

### Product mixing ratio (by volume)

Jotacote Universal S120 Comp A	2.5 part(s)
Jotacote Universal S120 Standard Comp B	1 part(s)

### Thinner/Cleaning solvent

Thinner:	Jotun Thinner No. 17
Cleaning solvent:	Jotun Thinner No. 17

When thinners are used as a cleaning solvent, the use must be in accordance with prevailing local regulations.

### Guiding data for airless spray

Nozzle tip (inch/1000):	17-25
Pressure at nozzle (minimum):	180 bar / 2600 psi

## Drying and Curing time

Substrate temperature	50 °F	73 °F	104 °F
Surface (touch) dry	17 h	7 h	3 h
Walk-on-dry	23 h	9 h	4 h
Dried to over coat, minimum	21 h	8 h	4 h
Dried/cured for service	12 d	7 d	3 d
Dried/cured for immersion	3 d	2 d	1 d

For maximum overcoating intervals, refer to the Application Guide (AG) for this product.

Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Walk-on-dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physical damage.

Dry to over coat, minimum: The recommended shortest time before the next coat can be applied.

Dried/cured for service: Minimum time before the coating can be permanently exposed to the intended environment/medium.

Dried/cured for immersion: Minimum time before the coating can be permanently immersed in sea water.

## Induction time and Pot life

<b>Paint temperature</b>	<b>73 °F</b>
Pot life	1 h

Reduced at higher temperatures, and with increased mixing volumes.

## Heat resistance

	Temperature	
	Continuous	Peak
Dry, atmospheric	120 °C	140 °C
Immersed, sea water	50 °C	60 °C

Peak temperature duration max. 1 hour.

The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures.

Note that the coating will be resistant to various immersion temperatures depending on the specific chemical and whether immersion is constant or intermittent. Heat resistance is influenced by the total coating system. If used as part of a system, ensure all coatings in the system have similar heat resistance.

## Product compatibility

Depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product. Some examples are shown below. Contact Jotun for specific system recommendation.

Previous coat:	inorganic zinc silicate shop primer, epoxy, epoxy mastic, zinc epoxy
Subsequent coat:	acrylic, alkyd, epoxy, polyurethane, polysiloxane, epoxy mastic, vinyl epoxy

## Packaging (typical)

Volume (liters)	Size of containers (liters)
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Jotacote Universal S120 Comp A	12.5	20
Jotacote Universal S120 Standard Comp B	5	5

The volume stated is for factory made colors. Note that local variants in pack size and filled volumes can vary due to local regulations.

## Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, shaded, cool, well-ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

## Shelf life at 73°F (23 °C)

Jotacote Universal S120 Comp A	12 month(s)
Jotacote Universal S120 Standard Comp B	24 month(s)

In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

## Note

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Jotun's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Jotun representative for approval before commencing the work.

## Health and safety

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## Color variation

When applicable, products primarily meant for use as primers or antifoulings may have slight color variations from batch to batch. Such products and epoxy based products used as a finish coat may chalk when exposed to sunlight and weathering.

Color and gloss retention on topcoats/finish coats may vary depending on type of color, exposure environment such as temperature, UV intensity etc., application quality and generic type of paint. Contact your local Jotun office for further information.

## Disclaimer

# Technical Data Sheet

## Jotacote Universal S120



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