

## Jotacote Xtend GF

### Product description

This is a two component amine cured, glass flake reinforced, abrasion resistant epoxy coating. It is a ultra-high solid, high build and low VOC emission product. VOC content is lower than 10% by weight in paint. Specially designed as a universal, all round, anti-corrosive primer for harsh environment, where extended durability 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 carbon steel, stainless steel, aluminium, galvanised steel, concrete and thermally sprayed zinc substrates.

### Typical use

Suitable for structural steel and piping to be exposed to corrosive environments up to very high, immersed and buried. Recommended for offshore environments including splash zones, refineries, power plants, bridges, buildings and mining equipment. The product provides great flexibility in choice of dry film thickness range as well as area of use. Designed for areas where increased abrasion and impact resistance is needed such as decks, walkways and landing areas.

### Approvals and certificates

NORSOK Standard M-501, Edition 6, Coating system no. 7A - Carbon and stainless steel in the splash zone  
NORSOK Standard M-501, Edition 6, Coating system no. 7B - Submerged carbon and stainless steel  $\leq 50$  °C  
NORSOK Standard M-501, Edition 7, Coating system no. 7B - Submerged carbon steel  $\leq 50$  °C

Additional certificates and approvals may be available on request.

### Colours

selected range of colours

### Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	88 ± 2 %
Gloss level (GU 60 °)	ISO 2813	matt (0-35)
Flash point	ISO 3679 Method 1	32 °C
Density	calculated	1.5 kg/l

Region	Regulation	Test Standard	VOC Value
Korea	Korea Clean Air Conservation Act	KS M ISO 11890-1	116 g/l
China	GB 30981-2020 Limit of harmful substances of industrial protective coatings	GB/T 23985-2009 8.3	121 g/l

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

Gloss description: According to Jotun Performance Coatings' definition.

## Film thickness per coat

### Typical recommended specification range

Dry film thickness	150 - 600 µm
Wet film thickness	171 - 682 µm
Theoretical spreading rate	5.87 - 1.47 m <sup>2</sup> /l

## Surface preparation

### Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Carbon steel	St 2 (ISO 8501-1)	Sa 2½ (ISO 8501-1)
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.
Aluminium	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.	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.
Galvanised 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) of at least 70 % of the surface.
Concrete	Minimum 4 weeks curing. Moisture content maximum 5 %. Mechanically prepare the existing concrete surface by scabbling, needle gun, mechanical disc grinding.	Minimum 4 weeks curing. Moisture content maximum 5 %. Prepare the surface by means of enclosed blast shot or diamond grinding and other appropriate means to abrade the surrounding concrete and to remove laitance.
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating

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.

### Product mixing ratio (by volume)

Jotacote Xtend GF Comp A	3.5 part(s)
Jotacote Xtend GF Comp B	1 part(s)

### Thinner/Cleaning solvent

Thinner:	Jotun Thinner No. 17
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### Guiding data for airless spray

Nozzle tip (inch/1000):	21-25
Pressure at nozzle (minimum):	200 bar / 2900 psi

## Drying and Curing time

Substrate temperature	0 °C	5 °C	10 °C	15 °C	23 °C	40 °C
Surface (touch) dry	15 h	9 h	6 h	5 h	3.5 h	2 h
Walk-on-dry	45 h	27 h	19 h	15 h	8 h	3.5 h
Dry to over coat, minimum	30 h	22 h	15 h	11 h	6 h	2.5 h
Dried/cured for service			12 d	12 d	10 d	7 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 300 um DFT.

Care should be taken when over coating at low temperatures as the full system will require higher temperatures to reach full cure and proper mechanical strength.

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.

## Induction time and Pot life

<b>Paint temperature</b>	<b>23 °C</b>
Pot life	1 h

## Heat resistance

	Temperature	
	Continuous	Peak
Dry, atmospheric	120 °C	140 °C
Immersed, sea water	50 °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: epoxy, epoxy mastic, zinc epoxy, zinc silicate, inorganic zinc silicate shop primer  
Subsequent coat: acrylic, epoxy, polyurethane, polysiloxane

## Packaging (typical)

	Volume (litres)	Size of containers (litres)
Jotacote Xtend GF Comp A	14	20
Jotacote Xtend GF Comp B	4	5

The volume stated is for factory made colours. 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 23 °C

Jotacote Xtend GF Comp A	24 month(s)
Jotacote Xtend GF 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.

## Caution

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.

## Colour variation

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

Colour and gloss retention on topcoats/finish coats may vary depending on type of colour, 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.