

## Safeguard Plus

### Product description

This is a two component polyamide cured vinyl epoxy based coating. Specially designed as a fast drying, flexible, tie coat between Jotun epoxy primers and antifouling systems. To be used as tie coat / holding primer in immersed environments. It can be applied at sub zero surface temperatures.

#### Typical use

General:

Suitable as tie coat for a wide range of Jotun antifouling products.

Marine:

Specially designed for newbuilding construction where fast drying and over coating is needed.

Protective:

Suitable as tie coat in a complete system during newbuilding, exposed to a wide range of corrosive environments up to very high, and immersed. Recommended for offshore environments, including splash zones.

#### Colours

plum

### Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	56 ± 2 %
Gloss level (GU 60 °)	ISO 2813	matt (0-35)
Flash point	ISO 3679 Method 1	27 °C
Density	calculated	1.4 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested) (CARB(SCM)2007, SCAQMD rule 1113, Hong Kong)	400 g/l
VOC-EU	IED (2010/75/EU) (theoretical)	408 g/l
VOC-China	GB/T 23985-2009 (tested)	398 g/l
VOC-Korea	Korea Clean Air Conservation Act (tested) (Max. thinning ratio included)	396 g/l

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

All data is valid for mixed paint.

Gloss description: According to Jotun Performance Coatings' definition.

### Film thickness per coat

#### Typical recommended specification range

Dry film thickness	75 - 150 μm
Wet film thickness	135 - 265 μm
Theoretical spreading rate	7.5 - 3.7 m <sup>2</sup> /l

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## Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

### Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating

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## 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.

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### Product mixing ratio (by volume)

Safeguard Plus Comp A 5 part(s)  
Safeguard Plus Comp B 1 part(s)

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### Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 17

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### Guiding data for airless spray

Nozzle tip (inch/1000): 19-25  
Pressure at nozzle (minimum): 150 bar/2100 psi

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## Drying and Curing time

Substrate temperature	-10 °C	-5 °C	0 °C	10 °C	23 °C	40 °C
Surface (touch) dry	24 h	12 h	8 h	3 h	1 h	30 min
Walk-on-dry	72 h	36 h	20 h	10 h	6 h	3 h
Dry to over coat, minimum	96 h	24 h	18 h	8 h	5 h	2 h
Dried/cured for service	21 d	14 d	10 d	7 d	5 d	3 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.

## Induction time and Pot life

Paint temperature **23 °C**

Pot life 2 h

## Heat resistance

	Temperature	
	Continuous	Peak
Immersed, sea water	40 °C	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  
Subsequent coat: silyl acrylate antifoulings, silyl methacrylate antifoulings, ion exchange antifoulings, vinyl epoxy

## Packaging (typical)

	Volume (litres)	Size of containers (litres)
Safeguard Plus Comp A	16.7	20
Safeguard Plus Comp B	3.3	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, 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

Safeguard Plus Comp A	48 month(s)
Safeguard Plus 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.

## 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.

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## 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.

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## 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.

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