

AF Guard

Product description

This is a one component antifouling coating based on ion exchange technology. It provides good fouling protection. It is designed to achieve higher build up on using roller for more effective hull protection. To be used as finish coat in immersed environments only. Suitable on approved primers and tie coats on aluminium, carbon steel and wooden substrates.

Typical use

Marine:

Recommended for under water hull in drydocking. The product can be used for long service periods up to 12 months as a part of a complete coating system.

Typical trade

Suited for vessels operating in coastal service, such as barges and fishing vessels.

Approvals and certificates

Compliant with IMO Antifouling System Convention AFS/CONF/26.

Additional certificates and approvals may be available on request.

Colours

light red, dark red

Product data

| Property | Test/Standard | Description |
|------------------|-------------------|-------------|
| Solids by volume | ISO 3233 | 56 ± 2 % |
| Flash point | ISO 3679 Method 1 | 27 °C |
| Density | calculated | 1.4 kg/l |

| Region | Regulation | Test Standard | VOC Value |
|-----------|--|---------------|-----------|
| US | CARB(SCM)2020 / SCAQMD rule 1113 | Calculated | 382 g/l |
| Hong Kong | Air Pollution Control (VOC) Regulation | Calculated | 382 g/l |
| EU | European Paint Directive 2004/42/CE | Calculated | 382 g/l |
| EU IED | Industrial Emission Directive 2010/75/EU | Calculated | 382 g/l |
| Korea | Korea Clean Air Conservation Act | Calculated | 382 g/l |

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

Film thickness per coat

Typical recommended specification range

| | | |
|----------------------------|-----------|-------------------|
| Dry film thickness | 75 - 175 | µm |
| Wet film thickness | 135 - 315 | µm |
| Theoretical spreading rate | 7.5 - 3.2 | m ² /l |

Surface preparation

Surface preparation summary table

| Substrate | Surface preparation | |
|-----------------|---|--|
| | Minimum | Recommended |
| Coated surfaces | <p>New tie coat or new antifouling: Remove any contamination that could interfere with the intercoat adhesion. Exceeding maximum recoat intervals will require cleaning/abrading and/or application of additional coats, depending on condition</p> <p>Aged antifouling with leached layer: Removal by thorough fresh water washing at minimum nozzle pressure 200 bar.</p> | <p>New tie coat or new antifouling: Remove any contamination that could interfere with the intercoat adhesion. Exceeding maximum recoat intervals will require cleaning/abrading and/or application of additional coats, depending on condition.</p> <p>Aged antifouling with leached layer: Removal by thorough fresh water washing at minimum nozzle pressure 340 bar.</p> |

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: | Recommended to use long hair roller. Care must be taken to achieve the specified dry film thickness. |

Product mixing

Single pack

Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 7

Thinning is not normally required for brush and roller application. If thinning is needed, maximum recommended thinning is 5% for spray application. Do not thin more than recommended for good performance.

Guiding data for airless spray

Nozzle tip (inch/1000): 21-31
Pressure at nozzle (minimum): 150 bar/2100 psi

Drying and Curing time

| Substrate temperature | 10 °C | 23 °C | 40 °C |
|---------------------------|--------|--------|--------|
| Surface (touch) dry | 45 min | 30 min | 30 min |
| Dry to over coat, minimum | 8 h | 5 h | 2 h |
| Dried/cured for immersion | 12 h | 10 h | 8 h |

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 at 50 %, 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.

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

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

Recommended type of primer

For steel vessel's primer, anti corrosive primer system suitable for purpose.

Steel vessel tie coat: Safeguard Universal ES
Wooden vessel primer + tie coat: Uniprime QD

Packaging (typical)

| Volume (litres) | Size of containers (litres) |
|--------------------|--------------------------------|
|--------------------|--------------------------------|

AF Guard

5 / 20

5 / 20

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

AF Guard

12 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.

Technical Data Sheet

AF Guard



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