JDFoul839

Product description

This is a one component acrylic, hydrolysing antifouling coating based on ion exchange technology. It provides good fouling protection. This is achieved through self polishing characteristics reducing hull deterioration. To be used as finish coat in immersed environments only. Suitable on approved primers and tie coats on carbon steel substrates. It can be applied at sub zero surface temperatures.

Typical use

Marine:

Recommended for underwater hull in newbuilding and drydocking. Designed for vessels trading at a wide range of speed and activity. The product can be used for long service periods up to 36 months as a part of a complete coating system.

Protective:

Can be used for offshore constructions and outside hull for static installations in deep sea.

Approvals and certificates

Obtained the certificate of works approval of China Classification Society.

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

Colours

light red, dark red

Product date

Property	Test/Standard	Description
Solids by volume	ISO 3233	58±2%
Flash point	ISO 3679 Method 1	25℃
Density	calculated	1.9Kg/L
VOC-China	GB/T23985-2009(ISO11890-1)	361g/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	75μm - 175μm
Wet film thickness	129μm - 302μm
Theoretial spreading rate	7.7m^2/L - 3.3m^2/L

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	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 Aged antifouling with leached layer: Removal by thorough fresh water washing at minimum nozzle pressure 340 bar.	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. Aged antifouling with leached layer: Removal by thorough fresh water washing at minimum nozzle pressure 340 bar.

Application

Application methods

The product can be applied by

Spray:	Use air spray or airless spray.
Brush:	May be used. Care must be taken to achieve the specified dry film thickness.
Roller:	May be used. Care must be taken to achieve the specified dry film thickness.

Product mixing ratio（by volume）

Single pack

Thinner/Cleaning solvent

Thinner: Jindun Thinner No. 102

Guiding date for airless spray

Nozzle tip (inch/1000): 21-31

Pressure at nozzle (minimum): 150 bar/2100 psi

Drying and Curing time

Substrate temperature	-5℃	0℃	10℃	23℃	40℃
Surface (touch) dry	6 h	2.5 h	1 h	40 min	30 min
Dry to over coat, minimum	48 h	36 h	9 h	7 h	6 h
Dried/cured for immersion	48 h	36 h	12 h	10 h	8 h

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

When three or more antifouling coats are applied in rapid succession it is recommended to double the time for immersion.

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.

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

Anticorrosive primer system suitable for purpose. Recommended tie coat for the subsequent antifouling coat is:

JDGuard5345 Modified epoxy intermediate paint

Packaging(typical)

	Volume (litres)	Size of containers (litres)
JDFoul 839	20	20

The volume stated is for factory made colours.

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

JDFoul 839	18	month(s)

For other colours than red, the shelf life is 6 months.

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 Jindun'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 Jindun 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.

Disclaimer

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

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