

## Description

High performance hard matrix antifouling that creates a smooth surface thus reducing the friction between the hull and the water resulting to a speed increase. It does not contain copper. Suitable for all types of hull (including aluminium) for cruising speeds over 30 knots.

## Suggested uses

Superior protection below the waterline against hard fouling, algae slime and other fouling organisms, with the use of unique biocides. Ideal for propellers and GRP, wood, steel, aluminium and light alloyed vessels.

## Product details

<b>Available shades:</b>	Pure white, Graphite black, Garnet red, Ocean blue
<b>Specific gravity:</b>	1,40 ± 0,05 g/ml
<b>Sheen level @ GU 60°:</b>	Flat
<b>Thinning range:</b>	0-5% Thinner 800
<b>Typical thickness:</b>	60 µm DFT / 110 µm WFT
<b>Shelf life (20°C):</b>	24 months (in airtight sealed containers)
<b>Theoretical spreading rate (60 µm DFT):</b>	8,3 m <sup>2</sup> /L
<b>Volume solids:</b>	50%
<b>VOC (as supplied) according to ISO 11890-2:2013:</b>	482 g/L
<b>Packaging:</b>	0.75 L, 2.5 L, 20 L

## Certificates

Lloyd's register approval as a recognized TBT-free Anti-fouling coating, in compliance with the IMO International Convention on the Control of Harmful Anti-fouling Systems on Ships.

## Overcoating / Drying

Overcoated with	Substrate Temperature °C								
	5°C		15°C		20°C		35°C		
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
COMFORT A/F	14 h		9 h		5 h		3 h		
<b>Launching</b>	48 h	6 M	24 h	6 M	12 h	6 M	8 h	6 M	
<b>Touch dry @ 20°C</b> ISO 1517 - 1973				<b>Through dry @ 20°C</b> ISO 9117-1990					
30 min				5 h					

min=minutes / h=hours / M=month

## Overcoating notes

In the event of a prolonged interval between application of the last coat and launching, make sure that during the waiting period, the area is well protected against extreme weather conditions. In the event of long recoating intervals (>1 week) between antifouling layers wash down the surface with fresh water and make sure that the surface is completely dry prior to the application of the next coat.

**Surface preparation**

**Old Hard Matrix Antifouling in good condition:** Remove oil & grease (if any) with a suitable alkali detergent. Salts, dust and any remains of fouling or contamination should be removed with high pressure fresh water cleaning and scrapping or wet sanding. Make sure that the surface is completely dry prior to the application. In case there is compatibility with the existing layer, apply according to the recommended specification. In case the old Antifouling is unknown or there is uncertainty about compatibility, apply a layer (40 µm) of ALUPRIME to seal the surface and then follow the recommended specification.

**Old Antifouling in poor condition or Fouling release layer:** Remove oil & grease (if any) with a suitable alkali detergent. Salts, dust and any remains of fouling or contamination should be removed with high pressure fresh water cleaning and scrapping or wet sanding. Remove the existing Antifouling or fouling release layer, by wet sanding or with the use of paint remover. Make sure that the surface is clean and completely dry prior to the application. Apply according to the recommended specification.

**Bare GRP:** Prime the surface for antiosmotic protection with ALUSHIELD (consult relevant Product Data Sheet).

**Bare Carbon steel:** Prime the surface for enhanced anticorrosion protection with VEMASHIELD (consult relevant Product Data Sheet).

**Bare Wood:** Prime the surface with ALUPRIME (consult relevant Product Data Sheet).

**Application guidelines**

**Temperature:** The temperature of the surface to be coated should be at least 3°C above the dew point. Good painting practice must always be followed. Minimum application temperature is 5°C. Maximum application temperature is 35°C (For temperatures over 35°C special measures should be taken) Pls. consult your VEMAR representative. The temperature of the product in the can must be between +10°C - +35°C. The ideal temperature, in order to obtain full product application characteristics, is +20°C.

**Mixing:** Mix thoroughly until a Homogenous mixture is achieved.

**Method:** Conventional spray / Brush / Roller / Airless spray. The applicator should choose the appropriate method taking into consideration the area to be covered the desired finish result, environmental issues, weather conditions, project's schedule and available equipment. You may find below indicative adjustment according to the application method used. For more information on the appropriate equipment and guidance pls. contact your local VEMAR representative.

Method	Brush/Roller	Conventional/Air spray	Airless Spray
Thinning*	up to 5%	up to 5%	up to 5%
Tip orifice*	-	HVLP 1,8-2,0 mm	0,011''-0,015''
Pressure (@ tip)*	-	1,5-2,0 bar	150 bar
Pump ratio*	-	-	45:1

*\*The above information is indicative and may be used as guidance only. Actual values may differ according to actual prevailing conditions.*

**Recommended specification**

Apply 2 coats (120 µm) on appropriate prepared and primed surface. For more information about recommended systems consult VEMAR's Technical guide or your local VEMAR representative. It is recommended to apply an extra coat to fore and aft areas of the hull affected more heavily by wear, such as the waterline, rudders, keels, outdrives and trim tabs.

**Indicative thickness / coat**

Application method	DFT* Range	WFT* Range
Conventional / Airless spray	60-80 µm	100-150 µm
Brush / Roller	40-60 µm	70-110 µm

\*DFT= Dry film thickness WFT= Wet film thickness

The above data indicates the range where the product has been tested thus will provide the application characteristics and the performance as described. Application in thickness outside the indicative range may result in early failure/degradation of the coating system.

**Tool cleaning**

After use, clean equipment thoroughly with Thinner 800.

**Storage**

Store in a cool and shaded area in temperatures +5°C up to +25°C. Storage in temperatures higher than indicated will reduce the shelf life of the product.

**Health, safety & protection**

Always use appropriate safety equipment for your face, eyes and skin. Make sure that the area where the product is being used is well ventilated. ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET BEFORE USE. Do not pour the containment or any remains in an aqueous environment or drainage. Do not dispose remains in municipal waste areas. Consult your local authorities for the disposal of any remains or empty cans.

**Disclaimer**

*The information, data, guidance and any recommendations provided herein are based on Vemar's know-how, laboratory testing and obtained experience and is correct to the best of our knowledge. Users should contact their closest Vemar representative in order to receive guidance according to their special application needs not referred in this document. The performance of the product under the actual conditions of any intended use where Vemar will not have access to the various conditions affecting the use and application of the product, is not guaranteed and must be determined by the user. This document may be altered any time in the context of Vemar's continuous improvement and development. The supplied products and all technical assistance will be under the General condition of sales & delivery. By using this product as recommended in this document it is stated that the manufacturer and or seller, and the buyer and or user waives all claims involving, any liability, included but not limited to negligence, injury or direct or consequential losses or damages.*