

### NATURE AND USE

Hard matrix antifouling formulated for the protection of any kind of hull from the marine biofouling.

Recommended for medium/high speed boats (> 20-25 knots).

The particular formulation of the product provides an excellent action during the time thanks to the mix of special high synergic biocides.

Polaris H.M. is Copper Protoxide free, therefore it can be used also on aluminium hulls.

**The product meets the IMO AFS Convention and Regulation (EC) No. 782/2003 requirements for antifouling and is certified by the Rina body (Test report ref. no. 2023CS01351/02)."**

### TECHNICAL DATA



Type of Binder:	Acrylic Copolymer - Natural resins
Specific gravity:	Kg/l 1,55 - 1,70 ± 0.05 according to the colour @ +20°C
Solids by Weight:	82 ± 3 %
Solids by Volume:	65 ± 3 %
Colour/appearance of the applied film:	White, Red, Azure, Blue sea, Black, (satin)

### SUBSTRATE PREPARATION

#### New steel (hull):

When it is not possible to sandblast, remove any trace of rust and mill scale by mechanical brush or abrasive disk. Remove dust and brushing residuals, clean the substrate, by a cloth soaked in thinner for nitro based paints or thinner for epoxy paints. After preparation of the substrate apply immediately 1 coat of suitable anticorrosion primer (ex. **StopPrimer**) and then, a second one.

Complying with the recoat interval of the keying coat, apply 2 - 3 coats of **Waterstop** ( or alternatively **Unicoat CR-A**), recoat interval 24 hours between each coat and finish with at least 2 coats of **Polaris H.M.**, recoat interval 12 hours between each coat.

#### New wood (hull):

on a substrate dry, seasoned and clean, apply (**\*one-component coating system\***):

a first coat of Anti putrid **Corrosop 2M** making sure the wood is well soaked. After at least 24 hours follow with 2 full coats of **Corrosop 2M** and then apply 3 coats of **Unicoat CR-A**, recoat interval 24 hours between each coat.

#### / (**\*two component coating system\***)

apply 1 - 2 coats of "**Epofixo Impregnante**", then after at least 12 hours, apply 2 coats of "**Epofixo Evolution**", followed by 2 coats of **StopPrimer**.

Complete both the one component and the two component coating systems with 2 coats minimum of **Polaris H.M.**, recoat interval 12 hours between each coat.

#### New Gelcoat (hull):

Dry sanding with paper P120-P180.

The surface must be well dry (U.R. ≤ 0,8%), free from any trace of oil, grease and other contaminants, perfectly roughened and dust free.

Apply 3-5 coats of **StopPrimer** and finish directly with at least 2 coats of **Polaris H.M.**, recoat interval 12 hours Between each coat.

#### Aluminium (hull):

When it is not possible to sandblast, roughen the substrate with paper grain type P100 or abrasive disk.

Eliminate dust and residuals and clean the substrate by a cloth soaked in thinner for nitro based paints or

Thinner for epoxy paints. After preparation of the substrate apply immediately 1 coat of suitable anticorrosion

primer (for ex. **StopPrimer Light Alloys**) and then, a second one.

Complying with the recoat interval of the keying coat, apply 1 coat of **Stopprimer**, follow with 2 coats of **Waterstop**, recoat interval 24 hours between each coat. Finish with minimum 2 coats of **Polaris H.M.**, recoat interval 12 hours between each coat.

NOTE: The application of one coat of **Unicoat CR-A** as tie-coat between the two component epoxy paint and the final antifouling, is improving the adhesion between the two coatings.

### SURFACES PREVIOUSLY TREATED WITH ANTIFOULING:

#### Paint well tied and in good conditions:

Wash with soft water (repeat the operation many times if necessary) and let it dry very well. Should the nature of the antifouling applied be unknown, apply 2 coats of **Unicoat CR-A**, recoat interval 24 hours between each coat and finish with minimum 2 coats of **Polaris H.M.**, recoat interval 12 hours between each coat.

#### Paint in bad conditions:

Remove the old paint not well tied, apply 2 coats of **Unicoat CR-A** recoat interval 24 hours between each coat and finish with minimum 2 coats of **Polaris H.M.** recoat interval 12 hours between each coat. Should the conditions of the old coat of paint be very critical, it will be necessary to remove the coating previously applied completely down to bare surface, following the same instructions given for the new surface.

### PRODUCT PREPARATION

The product contains heavy pigments tending during time to settle to the bottom of the can. Make sure the product is well stirred before use, thinning if necessary.

Let the mixture rest for 5 - 10 minutes in order to allow the air entrapped in it to outgas before applying the product.

### APPLICATION DETAILS

<b>Application method:</b>	Standard airless spray with compression ratio 30:1 minimum Conventional spray Roller, brush
<b>Thinning:</b>	Ready to use 0-10 % max. airless or spray application 0- 5% max. roller or brush application different thinning % can be necessary according to the absorption of the substrate and the thickness required
<b>Thinner:</b>	Thinner SINT400 D
<b>Cleaning:</b>	Thinner SINT400 D
<b>Drying @ +25°C:</b>	Touch dry 2 - 3 hours
<b>Recoat interval @ +20°C:</b>	Minimum 12 hours
<b>Application Ambient Temperature:</b>	Between +5°C and +35°C
<b>Suggested Temperature of the product:</b>	+20 ÷ +30°C
<b>Substrate Temperature:</b>	+5 / +40°C always at least +3/5°C above dew point
<b>Relative Humidity:</b>	≤ 80%

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The content of the present technical data sheet is the most complete currently available, based on practical experience and given in good faith. Should any change be necessary, the present data sheet will be updated without prior notice. The applying conditions of use differ according to environmental conditions and subjective application factors outside the control of the Company. The user shall determine the suitability of the product for the intended use under his own risk and responsibility. No warranty is impressed or implied. The Company refuses all liability not directly related with defects of the product or consequent to deviations from written instructions.



INDUSTRIE BRUNO STOPPANI R.P.S. S.r.l.

Sede Operativa: Via Industriale 90-119 25020 Capriano del Colle (Bs) – Italy - Phone +39 030 9745116 – Fax +39 030 9745383

[sales@industri brunostoppa nipa nts.com](mailto:sales@industri brunostoppa nipa nts.com) - [www.industri brunostoppa nipa nts.com](http://www.industri brunostoppa nipa nts.com)

Company with quality management system UNI EN ISO 9001:2015 certified

<b>Suggested thickness:</b>		120 µm dry (DFT) (2 coats of 60 µm DFT each) ~ 110 µm wet (WFT) each
<b>Theoretical spreading rate:</b>	sqm/l	11 per coat at a dry film thickness of 60 µm (DFT)
<b>Launching at +20°C:</b>		minimum 48 hours – max 1 month***

\*\*\*NOTE: **Polaris H.M.** is sensitive to direct exposure to UV rays, therefore after 72 hours from application of the last coat of antifouling it will be necessary to protect the painted part or store the boat under cover. The timing of the launch is essential, should the storage timing last longer, we recommend to apply an extra coat of paint.  
Any discoloration of the coating due to air exposure tends to disappear after immersion.  
The higher the dry film thickness applied, the longer the coating protection lasts.

### HANDLING STORAGE AND SAFETY PRECAUTIONS

**Warning:** All handling and/or use activities of the product must strictly refer to the given indications in the Safety Data Sheet. The following advices are suggested by the common sense and in good faith, they are uncompleted and do not substitute the content of the specific safety data sheet of the product.

**Handling:** The material must be used only by professional and qualified applicators suitably trained. All the operations involving the use of the product, must be carried on in compliance with all the relevant National Health, Safety & Environmental Standards and Regulations.

**Precautions:** When the product is used inside enclosed areas ( i.e rooms, containers, vessels) it is imperative to provide the necessary air circulation using adequate means and must be granted during the whole time required by application and coating polymerization, to avoid conditions open to potential explosion danger.

All electrical installations must always be grounded. Where explosion hazards exist, the workmen should be required to use only non-ferrous tools and wear conductive non-sparking shoes and clothing. Explosion and flame-proof equipment too are imperative.

**Storage and transport:** Keep far from flames, sparks or heat sources. Do not leave exposed under the direct solar action. Store under shelter in original unopened packaging, in cool, dry and ventilated areas, at ambient temperatures between +5°C and +35°C.

**Shelf life:** **12 months** in the suggested storage conditions (original unopened packaging)

N.B.: **Product for professional use only**  
and exclusively for the uses not regulated under CE Directive 2004/42/CE.

Refer to Material Safety Data Sheet



Access catalogues, data sheets and company presentations