

SEAJET 032 SHOGUN-ECO

SEAJET 032 SHOGUN ECO is a high performance, biocide-free underwaterpaint based on unique ionomer technology from Japan. It is developed for salt water but can be used in fresh waters for shorter periods. Suitable for all types of boats, with speeds up to 25 knots. Advantages include:

- Colours are pure and bright, - Environmental friendly biocide free,
- New resin technology, - No risk of galvanic corrosion on aluminium surfaces,
- Little film build up,
- Easy to apply single season product.

TECHNICAL DATA

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| Type | High performance, biocide free self-polishing underwaterpaint. |
| Recommended use | Underwaterpaint for yachts and motorboats. For other existing antifoulings, consult compatibility table. |
| Surface Preparation | Over existing antifouling: High pressure fresh water wash (\pm 200 bar) to remove any fouling and salt. Remove existing antifouling in poor condition. Consult Seajet Antifouling compatibility Chart. Can be applied direct to existing SEAJET 032 SHOGUN ECO. For other existing antifouling in good condition, prime with SEAJET 011. Ensure the surface is dry and free of contamination such as salt, grease or oil. Degrease if required using SEAJET BOATWASH. Apply two coats. Apply an extra coat for motorboats travelling over 18 knots. Antifoulings should only be wet sanded or chemically stripped. Never burn-off or dry sand old antifoulings. Fiberglass/Wood: Apply SEAJET 011. Steel: First, apply primers SEAJET 117 with a final coat of SEAJET 011. Aluminium: First, apply primer SEAJET 017 followed by SEAJET 011. |

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| Physical Data | Colour: White, Mid blue, Navy blue, Red, Black |
| | Flash point: 27°C |
| | Volume solids %: 39 \pm 2 |
| | VOC (Theoretical): 553 g/l. |

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| Application Details | Thinner: SEAJET THINNER A |
| | Application Data: Brush, roller*, spray (professional use only) |
| | Min.Temperature: 0 °C |
| | Max. humidity: 85% R.H.(Dew point + minimum 3°C) |

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| Spray Details | Tip No.: Graco 621 - 723 |
| | Paint output pressure: 12.0 - 15.0 MPa |
| | Viscosity: 100 sec.(Ford Cup No.4) |
| | Thinning: 0 - 5 % (by volume) |

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| Film thickness and spreading rate: | Min. | Max. | |
| | Film Thickness, wet: 192 | 385 | μ m |
| | Film Thickness, dry: 75 | 150 | μ m |
| | Spreading Rate: 5,2 | 2,6 | m ² /l (theoretical) |

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| Preferable preceding coating | SEAJET 011 UNDERWATER PRIMER |
| Preferable subsequent coating | - |
| Packing | One Pack Product |

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| Notes | *Film thickness and spreading rate depends on application method. In case of brush application more layers may be required to achieve the specified film thickness. |
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Coating data

| Temperature | Drying time (at DFT 100 μ) | Overcoating intervals (at DFT 100 μ) | Pot life | Dry to launch | Remarks |
|-------------|------------------------------------------|----------------------------------------------|----------|---------------|---------|
| -5 °C | - | - | - | - | - |
| 0 °C | - | - | - | - | - |
| 5 °C | Surface dry:3 hours Hard dry:12 hours | Minimum: 12 hours Max.with itself: None | - | 24 hours | - |
| 10 °C | Surface dry:2 hours Hard dry:8 hours | Minimum: 8 hours Max.with itself: None | - | 18 hours | - |
| 20 °C | Surface dry:1 hour Hard dry:5 hours | Minimum: 5 hours Max.with itself: None | - | 12 hours | - |
| 30 °C | Surface dry:30 min Hard dry:4 hours | Minimum: 4 hours Max.with itself: None | - | 10 hours | - |

Note: Drying times and overcoating intervals will increase with increasing film thickness applied.

Before re-coating, always check that the existing paint film is 'through' dry.

Safety information: If Health, Safety and Environmental information is required a Health and Safety Data Sheet can be obtained from Chugoku Paints B.V.

Personal Protection advice and additional information can be obtained from the product Health and Safety Data Sheet which is available on request. The minimum safety precautions in dealing with this paint are:

- Observe the precautionary notices displayed on the container.
- Provide adequate ventilation.
- Avoid skin contact and inhalation of spray mist.
- If the product comes into contact with the skin, wash thoroughly with luke warm water and soap or suitable cleaner. If the eyes are contaminated, irrigate with water and seek medical advice immediately.
- Since the product contains flammable materials, keep away from sparks and open flames. No smoking should be permitted in the area.

| Definitions: | | |
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| Tolerances: | | The numerical information quoted in this Technical Data Sheet is subject to normal manufacturing tolerances. |
| Spreading Rate: | | The spreading rate can vary depending on application conditions, the geometrical complexity of the structure, the weather conditions, etc. |
| Volume Solids: | | The volume solids figure given in this Technical Data Sheet is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions measured by the Chugoku Standard Method corresponding to ASTM method D2697. |
| Overcoating Intervals: | | The intervals given assume preparation consistent with good painting |
| Hard dry: | | The time taken until the product can be walked on without damaging it. Time taken until full mechanical strength is obtained is longer. |
| V.O.C.: | | Theoretical quantity of volatile organic compounds in g/l. |

Disclaimer: Data, specifications, directions and recommendations given in this data sheet represent test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use is not guaranteed and must be determined by user. Product data is subject to change without notice and automatically void two years from issue. All legal relations of Chugoku Paints B.V. will be governed by the Uniform Terms of Sale and Delivery of Chugoku Paints B.V. as last filed with the district court of Rotterdam and upon request they will be made available without charge. Chugoku Paints B.V. explicitly rejects the applicability of any General Conditions, which its contractual parties may use. Exclusive jurisdiction: competent Court in Rotterdam.

The Inspector will undertake to the best of their ability, to carry out assistance during application of the products delivered by Chugoku, by only rendering advice in connection with the application at site. The Inspector undertakes to carry out the project in a conscientious manner, but Chugoku and/or the Inspector will not accept any kind of liability, direct or indirect, if the project does not give the results expected. Under all circumstances, the Buyer remains responsible for the execution of the project. Any advice and/or assistance rendered by the Inspector will be subject to such (final) responsibility of the buyer, and moreover subject to the Uniform Terms of Sale and Delivery of Chugoku Paints B.V. Even when damages or delays have been caused by faults or negligence on the side of Chugoku and/or the Inspector, such will not result in any liability whatsoever of Chugoku or the Inspector. Liability of both Chugoku or the Inspector for any consequential damages is explicitly excluded.

Some products have been specially modified to adapt to specific European requirements with regard to European-, national- and local laws and regulations or with regards to specific European use requirements. As a result some physical properties in a TDS may differ from those given in the original Japanese TDS.