

Applications:

Marine Coat is a unique high-gloss transparent protective system that has been specifically developed for the maritime sector. Marine Coat is a semi-permanent, film-forming protective system that can be applied to virtually all waterproof surfaces on and around boats and ships.

Marine Coat is a low molecular coating and non-solvent protective system consisting of a backbone of amino functional epoxy novolac with organic and inorganic polysiloxane bonds to which a cross-linker is added separately.

Marine Coat creates a durable, pore-filling, UV-resistant protective layer that prevents further degradation of the surface. The coating initially hydrolyses, followed by a poly-condensation process, which causes the coating to penetrate into the pores of the surface and binding to the surface. This technique creates an extremely dense and chemically resistant layer that expands inwards.

Marine Coat changes the semi-permeability (osmosis) of the gelcoat to non-permeability and provides extreme gloss and color deepening.

In addition, a treatment with Marine Coat creates an 'easy-to-clean' effect, which results in cost and time savings in the maintenance programme of the ship (increase of the uptime).

Surface conditions and general pre-treatment of the surface:

Clean the surface thoroughly to remove all forms of contamination, such as grease, loose paint, oils, waxes, etc. Damaged or previously coated surfaces must be treated with a suitable repair system, followed by sanding of the surface with a sanding medium P320-P1.000 (ultra fine) if necessary. The surface that requires treatment should also meet the relevant conditions.

Complete System* for coated surfaces: Primer, Filler, paint primer, lacquer and final coat (and) Marine Coat.

*A thorough inspection, written project advice or specifications from our technical advisor and R&D department are required before use of Marine Coat individually or as part of a complete coating system.

Considerations during application:

- A thorough inspection, written project advice or specifications from our technical advisor and R&D department are required before use of Marine Coat individually or as part of a complete coating system.
- Always conduct a reference test on the surfaces that require treatment, to evaluate both the adhesion and the aesthetic result.
- The surface should be completely dry when the product is applied.
- This product should be used at a maximum relative humidity of 85% and an outdoor temperature of at least 10°C.
- The temperature of the surface that requires treatment should be at least 1°C above the dew point.
- Do not apply this product in direct sunlight or on a hot surface > 25°C, or on surfaces directly exposed to the wind.

Product usage:

The quantity of Marine Coat materials used depends strongly on the technical maintenance condition, required layer thickness and porosity of the surface that requires treatment. The use of materials will therefore be specified in the mandatory project advice or specifications.

Instructions for use:

1. Protect surrounding surfaces that do not require treatment by taping or shielding against contamination of the surface.
2. Clean the surface thoroughly, for example using Deep Clean, in combination with Hull & Deck Cleaner Hard or/and Hull & Deck Cleaner Pro. **Always rinse thoroughly with clean water.**
3. Continue preparing the surface by lightly sanding the surface with a sanding medium P320-P1.000 (ultra fine), if necessary, treat the surface with Hull & Deck Cleaner Pro after sanding. Always rinse thoroughly with clean water.
4. Immediately before applying Marine Coat, clean the entire surface using Surface Cleaner Wipes, and allow this to dry completely.
5. Add the Cross-Linker (B-Component) to the Marine Coat and mix thoroughly (approx. 1 min.). After mixing, Marine Coat has a processing time (pot life) of approx. 8 hours, any remaining product **CANNOT** be processed after 8 hours.
6. Apply Marine Coat in an ultra-thin layer to the surface that has been pre-treated in accordance with the project specifications. Use the applicator tools to apply a single layer to a dry surface, ensuring that the applicator or application tools are clean at all times.
7. Apply Marine Coat in a continuous manner, i.e. working wet in wet.
8. Allow the product to dry (between 1 and 5 hours depending on temperature and humidity, complete curing after approx. 7 days). If the applied layer does not offer sufficient protection (for example as a result of a missed patch), then apply an extra layer within the hour before the first layer starts to dry.
9. If a second layer needs to be applied after more than 1 hour, then the existing layer must be sanded thoroughly until completely matt. If the existing layer is still too fresh (within 7 days), then this can result in variation or difference in gloss in the final layer.
10. Ensure that the surface is protected against the effects of rain for at least 2 hours after drying (depending on the temperature and relative humidity).

Laboratory Tests:

Saltspray Test: ISO 9227, ISO 4628-2, ISO 4628-3, ISO 4628-8, 480 hours.
Constant Humidity Test: ISO 6270-1, ISO 4628-2, ISO 4628-3, 240 hours.
Fluorescent UV Lamps: ISO 16474-3, 1500 Hours. Gloss according to ISO 2813.
Rapid Deformation Test: ISO 6272-2.
Determination of Film Hardness By Pencil Test: ISO 15184.
Bend Test (conical mandrel): ISO 6860.
Bend test (cylindrical mandrel): ISO 1519.

The laboratory tests have been performed by an independent test laboratory, member of the NVVT (Dutch Association of Paint Technicians) and NRK (Dutch Plastics- and Rubber Industries).

Hazard symbols and H & P statements (CLP):

Consult the MSDS of the relevant components for the hazard symbols and H & P phrases. Ensure adequate ventilation during the application and drying time. Avoid contact with the skin and eyes by means of suitable personal protective equipment (PPEs) such as gloves, safety goggles, suitable footwear, protective creams and similar. Also refer to the instructions on the packaging and/or MSDS.

Safety aspects: consult the safety data sheet.

Hazard Class (transport): consult the safety data sheet.

Marine Coat

Technical Data Sheet

Publication date: November 26nd 2021

Specifications:

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|----------------|----------------------|
| Color: | Colorless |
| Scent: | Strong |
| Flash Point: | >25 degrees Celcius |
| Degradability: | Biologically optimal |
| Denisty: | 1,023 g/cm3 |

Packaging and industrial waste:

Treat as industrial waste in accordance with the applicable regulations.
Collect process water in accordance with the applicable local regulations.

This information is based on laboratory tests and practical experience.
For application and use, please adhere strictly to the descriptions in the technical product information sheets and MSDS sheets. We do not accept any liability for any advice provided by us. The application, use and handling of the products are the sole responsibility of the user. All our documents and texts have been prepared to the best of our knowledge, language and translation errors are expressly excluded and can never lead to any liability.

Marine Coat is part of the Impressed Pro® Marine product range, developed to clean and preserve all types of all common surfaces and materials on and around boats and/or ships. For specific questions and applications, as well as for the up-to-date TDS and MSDS sheets, please visit our website www.impressedpro.com or contact your distributor and / or technical advisor.

Disclaimer:

The information in this document has been provided by Cleaning Care Products International B.V. with the best intentions and based on available knowledge and is based on laboratory tests and practical experience. Cleaning Care Products International B.V.'s products are considered intermediate products and as such, the products are often used under circumstances beyond the control of Cleaning Care Products International B.V.

As a result, Cleaning Care Products International B.V. can only guarantee the quality of the product itself. The advice given by us and the information in this document can never result in any liability. Application, use and processing of the products fall under the exclusive responsibility of the user. Small product variations can occur, in order to comply with local requirements. Cleaning Care Products International B.V. retains the right to amend this information without prior notification.

The user must consult Cleaning Care Products International B.V. at all times for specific guidelines on the general suitability of this product for their needs and specific application.

Produced and developed:

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