Press Release



February 28th, 2025

"Paint Sommelier - QUANTUM PASS" has received

Innovation Endorsement by ClassNK (Nippon Kaiji Kyokai)

Kansai Paint Marine Co., Ltd. (President: Hiroshi Oka) has received "Innovation Endorsement(*1)" for Product and Solution Certification from ClassNK, for its "Paint Sommelier - QUANTUM PASS" (hereinafter, "Paint Sommelier"), CO2 emission reduction support system based on biofouling data from ships in service.



February 17th, 2025 Photo of Certificate Award

Left: Mr. Junichi Kawakami, General Manager of Technical Solution Department, ClassNK

Right: Mr. Keizo Kita, Managing Director of Sales Division

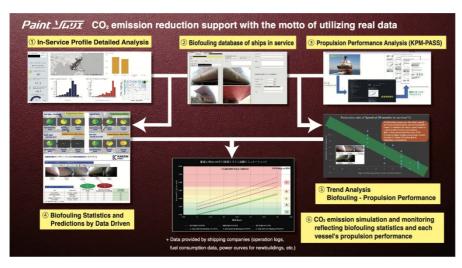
In the international shipping industry, regulations aimed at reducing CO2 emissions are becoming increasingly stringent. In addition to International Maritime Organization's (IMO) EEDI/EEXI (Energy Efficiency Design Index) and CII (Carbon Intensity Indicator), European Union is set to implement EU Emissions Trading Scheme (EU-ETS) and FUEL-EU Maritime, which aims to promote the decarbonization of fuels. These regulations are expected to have a significant impact on the business operations of shipping companies.





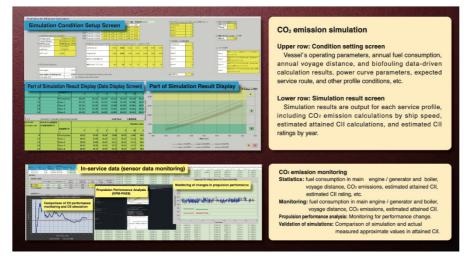
Biofouling (marine biofouling) is a major factor that increases frictional drag on a vessel's hull, reducing fuel efficiency.

Increased fuel consumption leads to higher CO₂ emissions and a greater environmental impact. Since biofouling has a direct effect on CO₂ emissions management, proper monitoring and countermeasures are essential.



"Paint Sommelier - QUANTUM PASS" is an integrated platform that combines:

- + Biofouling database built from extensive vessel data collected over years of service,
- + Service profile analysis software utilizing AIS (Automatic Identification System) data and oceanographic information,
- + Propulsion performance analysis system that evaluates vessel operation data.



This system enables biofouling prediction, CO₂ reduction impact estimation, and CII verification through advanced simulations and real-time monitoring. The underlying biofouling database currently includes data from over 2,000 vessels as of December 2024.



By leveraging deep insights into the unique operational challenges and environments of each ship, "Paint Sommelier" delivers tailored solutions to optimize CO₂ reduction strategies. Through this initiative, Kansai Paint Marine is committed to marine environmental conservation and a sustainable future in collaboration with the shipping industry.

1 : ClassNK Innovation Endorsement : Third-party certification of innovative technologies and initiatives in the maritime industry by the Nippon Kaiji Kyokai. The certification covers ships, products and solutions, and providers.

https://www.classnk.or.jp/hp/en/activities/techservices/dgd2030/iea/index.html

■Corporate Data

Company name: Kansai Paint Marine Co.,Ltd

Head office: 2-16-2, Konan, Minato-ku, Tokyo 108-0075, Japan

Representative: Hiroshi Oka (President)

Foundation: October, 2001

Activities: Development, manufacturing and sales of various types of marine paint.

Development, manufacturing and sales of antifouling paint for fish nets and other marine products.

Development, manufacturing and sales of antifouling paint for sluice gates in power plants etc.

Homepage: https://www.kp-marine.co.jp/en/

Inquiries regarding this press release

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