



Certificate No:
TAK000025A

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Anti-Fouling Systems

with type designation(s)
SEAFLO NEO CF Z

Issued to

Chugoku Marine Paints, Ltd. (Hiroshima Head Office)
Otake, Hiroshima Pref., Japan

is found to comply with

DNV class programme DNV-CP-0110 – Type approval – Anti-fouling systems

Application :

Cybutryne-free and Organotin-free self-polishing anti-fouling system.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Hamburg** on **2022-10-18**

This Certificate is valid until **2027-10-17**.

DNV local station: **Kobe**

for **DNV**

Approval Engineer: **Christine Löll**

Thorsten Lohmann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2021-03

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Page 1 of 2

Product description

Cybutryne-free and Organotin-free self-polishing anti-fouling system; **SEAFLO NEO CF Z**

Colours: Red A; Light Red A

Active ingredients:

CAS No. 14915-37-8 Copper Pyrithione
CAS No. 122454-29-9 Tralopyril

Manufactured by

KOBE PAINTS, LTD., 1321-1, Rokubuichi Aza Hyakuchobu, Inami-cho, Kako-gun, Hyogo, Japan

DNV local Station: Kobe

Responsibility

The Company (stated on the front page of this Certificate) takes the responsibility that both design and production are in compliance with Rules, Standards and/or Regulations listed on page 1 of this certificate.

Application/Limitation

The issuance of this certificate is solely connected to the control of the Anti-Fouling System, AFS, with regard to compliance with the International Convention on the Control of Harmful Anti-Fouling Systems on Ships.

It does not cover verification of surface preparation, corrosion protection, fire, health and safety precautions, durability of the AFS or environmental properties other than regulated by the Convention.

Tests carried out

Type Testing carried out in accordance with Type Approval documentation, ref. Test Report No. 220459 from JPIA of 2022-05-24, with the following result:

- **SEAFLO NEO CF Z:** <200 mg/kg tin <0.02% tin

Marking of product

Product/package shall be marked with **manufacturer's name** and **address**, **type designation** and **date of production/batch number**.

Periodical assessment

The scope of the Periodical Assessment is to verify that the conditions stipulated for the Type Approval is complied with and that no alterations are made to the product design or choice of materials.

Periodical assessments (for Certificate Retention / Certificate Renewal) shall be performed according to DNV-CP-0338.

This certificate is only valid if required Periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>

END OF CERTIFICATE