DNV·GL

Certificate No:
**TAK00000YH**

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the TBT-Free Anti-Fouling Systems**

with type designation(s)
**SEAFLO NEO CF PREMIUM**

Issued to
**Chugoku Marine Paints, Ltd. (Hiroshima Head Office)**
**OTAKE CITY, HIROSHIMA, Japan**

is found to comply with
**DNV GL class programme DNVGL-CP-0110 – Type approval – Anti-fouling systems**

## Application :

**Organotin-free self-polishing hydrolyzing anti-fouling system.**

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

This Certificate is valid until **2022-09-17**.

Issued at **Høvik** on **2017-09-18**
DNV GL local station: **Hiroshima** for **DNV GL**

Approval Engineer: **Gisle Hersvik**

**Martin Strande**
**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.


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Job Id:
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## Product description

Organotin-free hydrolyzing self-polishing anti-fouling paint; **SEAFLO NEO CF PREMIUM**

Colours:
The product may be available in various colours. Please contact the local Chugoku Marine Paints Representative for details.

Chemically active ingredients:
CAS No. 14915-37-8 Copper Pyrithione
CAS No. 86347-14-0 Medetomidine

## Manufactured by

**Chugoku Paints B.V.**, Sluisweg 12, Heijningen, 4794SW, The Netherlands

DNV GL local office: Rotterdam

## 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.

## Type Approval documentation

## Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**, ref. Test Report from JPIA of 2016-10-14, with the following result:

- **SEAFLO NEO CF PREMIUM** (Light Red): <200 mg/kg tin <0.0200% tin

## Marking of product

Product shall be marked with *manufacturer's name*; **Chugoku Marine Paints, Ltd.**, *place of production* and *type designation;* ***SEAFLO NEO CF PREMIUM***.

The marking is to be carried out in such a way that it is visible, legible and indelible. The marking of product is to enable traceability to the DNV GL Type Approval Certificate.

## 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.

Assessments to be performed after 2 and 3.5 years (Certificate Retention) and at renewal after 5 years (Certificate Renewal).

The main elements of the Periodical Assessment are:

- Ensure that **Type Approval documentation** is available.
- Review design, materials, production process, and performance with respect to possible changes, in order to ensure compliance with **Type Approval documentation** and/or referenced material specifications.
- Ensure traceability between manufacturer's product marking and DNV GL Type Approval Certificate.

END OF CERTIFICATE