

TYPE APPROVAL CERTIFICATE

This is to certify:**That the TBT-Free Anti-Fouling Systems**with type designation(s)
SEAJET 037 COASTAL

Issued to

CHUGOKU PAINTS B.V.
Heijningen, Noord-Brabant, Netherlands

is found to comply with

DNV GL class programme DNVGL-CP-0110 – Type approval – Anti-fouling systems**Application :****Organotin-free anti-fouling system.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Høvik** on **2018-07-02**This Certificate is valid until **2023-07-01**.for **DNV GL**DNV GL local station: **Rotterdam**Approval Engineer: **Gisle Hersvik**

Rikard Törnqvist
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.



Job Id: **262.1-029172-1**
Certificate No: **TAK000019M**

Product description

Organotin-free hard anti-fouling paint; **SEAJET 037 COASTAL**

Colours:

The product may be available in other colours. Please contact the local Chugoku representative for details.

Active ingredients:

Cuprous oxide CAS No. 1317-39-1

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.

Type Approval documentation

Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**, with the following test result, ref. Test Certificate 03/163/NP-1 from PRA, UK of 2003-09-12:

- **SEAJET 037 COASTAL** (Red): 0.0065 % tin (no TBT detected)

Marking of product

Product shall be marked with *manufacturer's name*; **Chugoku Paints B.V., The Netherlands** and *type designation*; **SEAJET 037 COASTAL**.

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.

Periodical Assessment 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 to:

- 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 the DNV GL Type Approval Certificate.

END OF CERTIFICATE