DNV·GL

Certificate No:
TAK00000K2

TYPE APPROVAL CERTIFICATE

This is to certify:

That the TBT-Free Anti-Fouling Systems

with type designation(s)
Interclene 5012

Issued to
International Paint Limited
GATESHEAD, TYNE AND WEAR, United Kingdom

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

Application :

Organotin-free copolymer 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 **2021-12-08**.

Issued at **Høvik** on **2016-12-09**

for **DNV GL**

DNV GL local station: **Newcastle-upon-Tyne**

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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Product description

Organotin-free copolymer anti-fouling paint; **Interclene 5012**

Colurs:
The product may be available in various colours. Please contact your local International Paint Representative for details.

Active ingredient:
CAS No. 1317-39-1 Copper(1)oxide

Manufactured by

International Paint (Korea) Ltd., 8-6B/L Chilseo Industrial Complex, Kyenae-Ri, Chilseo-Myeon, Haman-Gun, Kyungsangnam-Do, Republic of Korea

DNV GL local station: Pusan

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 according to **Type Approval documentation**, ref. FITI report of 2008-02-19 with the following test results:

- **Interclene 5012**: TBT-compounds not detected (detection limit 0,1 mg/kg).

Marking of product

Product shall be marked with *manufacturer's name*; **International Paint (Korea) Ltd., Korea** and *type designation;* **Interclene 5012**.

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.

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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 DNV GL Type Approval Certificate.

END OF CERTIFICATE