

# TYPE APPROVAL CERTIFICATE

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**This is to certify:**

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

with type designation(s)  
**Antifouling ASP**

Issued to

**IMPARAT Farbwerk Iversen & Mähl GmbH & Co. KG**  
**Bremerhaven, Germany**

is found to comply with

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

**Application :**

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

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Issued at **Hamburg** on **2021-07-06**

for **DNV**

This Certificate is valid until **2026-07-05**.

DNV local station: **Hamburg – CMC North/East**

Approval Engineer: **Christine Löll**

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**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.



## Product description

**Antifouling ASP:** organotin-free self-polishing Antifouling

Colours: red, redbrown, black, blue, white, grey

Active ingredients:

Cuprous Thiocyanate CAS No. 1111-67-7  
Zincpyrithione CAS No. 13463-41-7

## Manufactured by

IMPAT Farbwerk Iversen & Mähl GmbH & Co. KG, Eisteichstraße 11, 27572 Bremerhaven, Germany

DNV local station: Bremerhaven

## 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, with the following test results, ref. Test report No. 09/103/NPb of PRA Coatings Technology Centre, Hampton, UK dated 2009-08-03:

- **Antifouling ASP** < 0,0010% tin (by weight in dry film – no TBT-compounds detected)

## Marking of product

Product shall be marked with *manufacturer's name*; **IMPAT Farbwerk Iversen & Mähl GmbH & Co. KG.**, *type designation*: **Antifouling ASP** and *batch number*.

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.



Job Id: **262.1-035756-1**  
Certificate No: **TAK0000226**

### **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 and Certificate Renewal) shall be performed according to DNVGL-CP0338.

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.dnvgl.com>

END OF CERTIFICATE