

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Protective Coating Systems - Seawater Ballast Tanks**

with type designation(s)

Intergard 269 + Intershield 300

Issued to

International Paint Limited**GATESHEAD, TYNE AND WEAR, United Kingdom**

is found to comply with

DNV GL class programme DNVGL-CP-0108 – Type approval – Protective coating systems for seawater ballast tanks and double-side skin spaces**IMO Resolution MSC.215(82) Performance Standard for Protective Coatings (PSPC)****IACS Unified Interpretations SC223. For Application of SOLAS Regulation II-1/3-2****Performance Standard for Protective Coatings (PSPC) for Dedicated Seawater Ballast Tanks in All Types of Ships and Double-side Skin Spaces of Bulk Carriers.****Application :****For use in ballast tanks, double-skin spaces, cofferdams and similar areas. Surface preparation and coating application as per PSPC or manufacturer's recommendations, whichever is stricter.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2021-08-11**.Issued at **Høvik** on **2016-08-12**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.

Product description

'**Intergard 269** and **Intershield 300**', 2-component epoxy holding primer for overcoating, plus 2-component epoxy based, light coloured, coating for corrosion protection of steel surfaces.

Application/Limitation

This approval is solely connected to the corrosion prevention properties of the coating material. The approval does not include any evaluation of toxicity, contamination, pollution, or fire technical properties.

'**Intergard 269** and **Intershield 300**' is approved for application on blast cleaned surfaces.

The coating system is approved with the following limitations:

- the coating system is not to be used in ballast tanks of more than 750 m³ capacity adjacent to a heated tank, and
- the coating system is not to be used under deck exposed to the sun.

Surface preparation and coating application as per PSPC or manufacturer's recommendations, whichever is stricter.

The durability of the applied coating system will depend on the steel surface preparation, coating application and the environmental conditions.

The Type Approval Certificate is invalid if the formulation of the epoxy coatings **Intergard 269** and **Intershield 300** are changed to a degree deemed significant by DNV GL.

Type Approval documentation

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Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**. The inspections and conclusions reported in the DNV GL Technical Report are carried out according to the procedures in IMO Resolution MSC.215(82) Performance Standard for Protective Coatings (PSPC), ref. IACS UI SC223;
- DNV GL Technical Report No. PSPUS-201606-1, Rev. 0 "Survey Report for Water Ballast Tank Coating Condition" of 2016-06-05.

Marking of product

Product/package shall be marked with *manufacturer's name and address*; **International Paint Limited, Gateshead, UK** and *type designation*; **Intergard 269** and **Intershield 300**, and *date of production/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.

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 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