

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Protective Coating Systems - Seawater Ballast Tanks

with type designation(s)
Intergard 7500

Issued to

International Paint Limited
Gateshead, Tyne and Wear, United Kingdom

is found to comply with

DNV class programme DNV-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.
DNV rules for classification – Ships

Application :

For use in ballast tanks, double-skin spaces, cofferdams and similar areas. Surface preparation and coating application according to 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.

Issued at **Hamburg** on **2023-09-15**

This Certificate is valid until **2028-09-14**.

DNV local unit: **UK & Ireland CMC & VMC**

for **DNV**

Approval Engineer: **Gisle Hersvik**

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

Intergard 7500, 2-component epoxy-based aluminium containing coating for corrosion protection of steel surfaces.

Manufactured by

Akzo Nobel Vietnam Limited, Lot 107, Amata Street, Amata Industrial Zone, Bien Hoa City, Dong Nai Province, Viet Nam

DNV local station: Vung Tau

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

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 7500 is approved for application on blast cleaned surfaces and on prequalified shop primed surfaces. The following shop primers have been prequalified:

- Interplate 317	[International Paint Ltd.]
- Interplate 937	[International Paint Lt.]
- Interplate 997	[International Paint Ltd.]
- Interplate Zero	[International Paint Ltd.]
- Interplate Zero Eco	[International Paint Ltd.]
- SigmaWeld 165 (Sigma Proferral MC)	[PPG / Sigma Coatings]
- Sigmaweld 190	[PPG / Sigma Coatings]
- Cerabond 2000	[Chugoku Marine Paints]
- KCI Zinc 1000	[Kangnam Jevisco Co., Ltd.]
- Galvany Shopprimer IZ182(J)	[KCC Corp.]
- Galvany Shopprimer IZ182(S)	[KCC Corp.]
- Hempel's Shopprimer ZS 15890	[Hempel A/S]
- TH-2	[Yejian New Material Co., Ltd.]
- CD-SG906	[Ningbo Haidun Coating Co., Ltd.]
- 725-E47	[Xiamen Sunrui Ship Coating Co., Ltd.]
- F-6001	[Jiangxi Jingcheng Zhibang Paint Co., Ltd.]
- SD Zinc Primer 1000HA(S)	[Cosco Kansai Paint & Chemicals Co., Ltd.]

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 coating **Intergard 7500** is changed to a degree deemed significant by DNV. If the formulation of any of the listed pre-qualified shop primers is changed to a degree deemed significant by DNV that shop primer cannot be used as part of the Protective Coating System.

Type Approval documentation

Tests carried out

Type Testing carried out in accordance with **Type Approval documentation** and in accordance with DNV-CP-0108. The tests are carried out in accordance with the procedures in IMO Resolution MSC.215(82) Performance Standard for Protective Coatings (PSPC), ref. IACS UI SC223:

- KTR Technical Report No. KTR-PSPC-075, Rev. 00 "Ballast Tank Protective Coating Test of 2 * 160 µm Intergard 7500 on Interplate 937" of 2011-04-01.
- KTR Technical Report No. KTR-PSPC-088, Rev. 00 "Ballast Tank Protective Coating Test of 2 * 160 µm Intergard 7500 on Sigmaweld 165" of 2011-09-30.
- KTR Technical Report No. KTR-PSPC-089, Rev. 00 "Ballast Tank Protective Coating Test of 2 * 160 µm Intergard 7500 on Galvany Shopprimer IZ182(J)" of 2011-09-30.

- KTR Technical Report No. KTR-PSPC-090, Rev. 00 "Ballast Tank Protective Coating Test of 2 * 160 µm Intergard 7500 on Cerabond 2000" of 2011-09-30.
- KTR Technical Report No. KTR-PSPC-091, Rev. 00 "Ballast Tank Protective Coating Test of 2 * 160 µm Intergard 7500 on KCI Zinc 1000" of 2011-09-30.
- KTR Technical Report No. KTR-PSPC-092, Rev. 00 "Ballast Tank Protective Coating Test of 2 * 160 µm Intergard 7500 on Hempel's Shopprimer Z/S 15890" of 2011-09-30.
- KTR Technical Report No. KTR-PSPC-144, Rev. 00 "Ballast Tank Protective Coating Test of 320 µm Intergard 7500 on KCC IZ182(S)" of 2016-01-20.
- KTR Technical Report No. N964684-1, Issue No. 1 "Coating System: Interplate Zero/Intergard 7500" of 2014-07-15.
- CCS-DNV Technology Institute, Report No. CDTI-CL-17B018, Rev. 04 "Ballast Tank Coating test of 2*160 µm Epoxy-based Intergard 7500 on TH-2 Inorganic Zinc Shop Primer" of 2014-10-15.
- CCS-DNV Technology Institute, Report No. CDTI-CL-15B053, Rev. 04 "Ballast Tank Coating test of 2*160 µm Epoxy-based Intergard 7500 on CD-SG906 Inorganic Zinc Shop Primer" of 2014-10-15.
- CCS-DNV Technology Institute, Report No. CDTI-CL-15B056, Rev. 04 "Ballast Tank Coating test of 2*160 µm Epoxy-based Intergard 7500 on 725-E47 Inorganic Zinc Shop Primer" of 2014-10-15.
- CCS-DNV Technology Institute, Report No. CDTI-CL-17B020, Rev. 04 "Ballast Tank Coating test of 2*160 µm Epoxy-based Intergard 7500 on F-6001 Inorganic Zinc Shop Primer" of 2014-10-15.
- Test and Verifying Center of Ship Materials on Coating and Painting test Report JX17366 "Coating System Intergrad 7500 High Solids Pure Epoxy Universal Primer on SD Zinc PRIMER 1000HA(S)" of 2017-12-29.
- CCS-DNV Technology Institute, Report No. CDTI-CL-17B021, Rev. 04 "Ballast Tank Coating test of 2*160 µm Epoxy-based Intergard 7500 on Interplate 317 Inorganic Zinc Shop Primer" of 2017-01-10.
- EXOVA Test Report N971803-03 (D7381/5/C) Issue 1 "2 Coats of Intergard 7500 over Interplate 997" of 2018-02-26.
- SGS UK Ltd. Test Report MAN267822-004 Issue 1 "Ballast Tank Coating Test of 2 x 160 µm Intergard 7500 over Interplate Zero ECO shop primer" of 2022-03-28.
- SGS UK Ltd. Test Report MAN273624-004 Issue 1 "Ballast Tank Coating Test of 2 x 160 µm Intergard 7500 over Sigmaweld 190 shop primer" of 2022-10-05.

Marking of product

Product/package shall be marked with *manufacturer's name*: **International Paint Limited**, *place of production* and *type designation*: **Intergard 7500**, 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 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 assessments (for Certificate Retention / Certificate Renewal) shall be performed according to DNV-CP-0338.

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.dnv.com>

END OF CERTIFICATE