Certificate no.:
TAK00002JN

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Protective Coating Systems - Cargo Oil Tanks

with type designation(s)
Intershield 300

issued to
International Paint Limited
Gateshead, Tyne and Wear, **United Kingdom**

is found to comply with
DNV class programme DNV-CP-0139 – Type approval – Protective coating systems for cargo oil tanks
IMO Resolution MSC.288(87) Performance Standard for Protective Coatings (PSPC)
IACS Unified Interpretations SC259. For Application of SOLAS Regulation II-1/3-11 Performance Standard for Protective Coatings for Cargo Oil Tanks of Crude Oil Tankers (PSPC-COT), adopted by Resolution MSC.288(87).

Application:

For use in cargo oil tanks of crude oil tankers. 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 **2025-08-07**
This Certificate is valid until **2030-08-06**.
DNV local unit: **UK & Ireland CMC & VMC**

Approval Engineer: **Gisle Hersvik**

for **DNV**

.....

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 USD 300 000.

Product description

Intershield 300, 2-component epoxy-based aluminium containing coating for corrosion protection of steel surfaces.

Manufactured by

Akzo Nobel Ltda (Brazil), Av. Dos Estados, 4826, Santo André - SP, 09220-900, Brazil

DNV local station: Rio de Janeiro

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.

Intershield 300 is approved for application on blast cleaned surfaces and on prequalified shop primed surfaces. The following shop primers have been prequalified:

- Interplate Zero [International Paint]
- Interplate 997 [International Paint]
- Interplate 937 [International Paint]
- Interplate 855 [International Paint]
- Interplate 805 [International Paint]
- Interplate 317 [International Paint]
- Hempel's Shopprimer ZS 15890 [Hempel A/S]
- SigmaWeld 190 [PPG Coatings]
- SigmaWeld 199 [PPG Coatings]
- W53-02 [Taicang Lanyan Paint Co.]
- SD Zinc 1000 HA(S) [NOF Kansai Marine Coatings]
- Muki Z 2001 [Jotun A/S]
- TH-2 [Jiangsu Yejian Anti-Corrosion Material Co., Ltd.]

Surface preparation and coating application according to 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 **Intershield 300** 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-0139. The tests are carried out in accordance with the procedures in IMO Resolution MSC.288(87) Performance Standard for Protective Coatings (PSPC), ref. IACS UI SC259:

- COT bv Report No. LAB12-0062-REP, Issue 01, "Crude Oil Test Intershield 300 on Interplate 937" of 2012-01-30.
- DNV Energy Report No. 2008-5479, Rev. 00, "Crossover test of Intershield 300 on Interplate 855" of 2009-01-23.
- DNV Energy Report No. 2008-5480, Rev. 00, "Ballast Tank Test of Intershield 300 on W53-02 shop primer" of 2009-02-04.
- DNV Energy Report No. 2008-5484, Rev. 00, "Crossover test of Intershield 300 on Interplate 805" of 2009-01-08.
- DNV Energy Report No. 2008-5486, Rev. 00, "Crossover test of Intershield 300 on Interplate 997" of 2009-01-08.
- DNV Energy Report No. 2008-5488, Rev. 00, "Crossover test of Intershield 300 on Sigmaweld 190" of 2009-01-12.
- STS Test Report No. 6909/D5078.D.3 of 2008-02-06 (Intershield 300 over SD Zinc 1000 HA(S)).
- STS Test Report No. 6909/D5078.D.49 of 2008-02-06 (Intershield 300 over Interplate 937).
- STS Test Report No. 6909/D5078.D.52 of 2008-02-06 (Intershield 300 over Sigmaweld 199).

- STS Test Report No. 6909/D5078.D.53 of 2008-02-06 (Intershield 300 over Hempel ZS 15890).
- Bodycote Report No. N 707041, Issue 1, “Ballast Tank Coating Test Intershield® 300 Epoxy Paint over Interplate 805 Zinc Silicate Shop Primer” of 2008-07-21.
- Bodycote Report No. N 802758, Issue 1, “Ballast Tank Coating Test Intershield® 300 Epoxy Paint over Interplate 855 Zinc Silicate Shop Primer” of 2008-11-05.
- EXOVA Report No. N950743, Issue 05, “Ballast Tank Coating Test Intershield 300 on Interplate 317” of 2010-04-19.
- EXOVA Report No. N950744, Issue 2, “Ballast Tank Coating Test of 2 * 160 µm Intershield 300 on Muki Z 2001” of 2010-03-26.
- EXOVA Report No. N9511697 (D5754/D/10), Issue No. 1, “Ballast Tank Coating Test of 2 * 160 µm Intershield 300 on Interplate Zero” of 2010-06-22.
- CCS-DNV Technology Institute Technical Report No. CDTL-CI-11B019, Rev. 02, “Ballast Tank Coating Test of 2 * 160 µm Epoxy-based Intershield 300(ENA300/303 and ENA301/303) on TH-2 Inorganic Zinc Shop Primer” of 2011-02-18.

Marking of product

Product/package shall be marked with *manufacturer’s name and address*: **Akzo Nobel Ltda (Brazil)** and *type designation*: **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 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