DNV·GL

Certificate No:
TAK00001WH

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Protective Coating Systems - Cargo Oil Tanks

with type designation(s)
Intershield 300HS

Issued to
International Paint Limited
Gateshead, Tyne and Wear, United Kingdom

is found to comply with
DNV GL class programme DNVGL-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 :

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

Issued at **Hamburg** on **2020-06-10**
This Certificate is valid until **2025-06-09**.
DNV GL local station: **Newcastle-upon-Tyne**

Approval Engineer: **Enno Brück**

for **DNV GL**

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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Job Id: **262.1-016156-8**
Certificate No: **TAK00001WH**

Product description

Intershield 300HS, 2-component epoxy based, light coloured, coating for corrosion protection of steel surfaces.

Manufactured by

International Paint (Korea) Ltd. – Chilseo Factory, 17 Gongdandong-gil, Chilseo-myeon, Haman-gun, 52002 Gyeongsangnam-do, Korea

DNV GL local station: Busan

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

- Interplate 937 [International Paint, United Kingdom]
- Sigmaweld 165 [PGG, Korea]
- Galvany Shopprimer IZ182(J) [KCC Corp.]
- Cerabond 2000 [Chugoku Samhwa Paints Ltd., Korea]
- Galvany Shopprimer IZ182(S) [KCC Corp.]
- KCl Zinc 1000 [Kangnam Jevisco Co., Ltd.]
- Interplate 8010 [International Paint (Korea) 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 **Intershield 300HS** is changed to a degree deemed significant by DNV GL. If the formulation of any of the listed pre-qualified shop primers is changed to a degree deemed significant by DNV GL that shop primer cannot be used as part of the Protective Coating System.

Tests carried out

Type Testing carried out in accordance with DNV GL 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 Report No.: LAB19-0018-REP, "2x Intershield 300 HS Robust on Interplate 937 Shop Primer", issued 2019-01-18.
- Element Materials Technology Report No. N971876-1 "TEST PROCEDURES FOR COATING QUALIFICATION, crossover test, Coating system D7381/1/5-A/3 (Intershield 300HS over Cerabond 2000[1])" issued 2018-05-23.

- Element Materials Technology Report No. N971874-03 "TEST PROCEDURES FOR COATING QUALIFICATION, crossover test, Coating system D7381/1/3-B (Intershield 300HS over Sigmaweld 165)" issued 2018-05-23.
- Korea Testing & Research Institute Report no. KTR-PSPC-226 "Ballast Tank Protective Coating Test of 320μm Intershield 300HS over Galvany Shopprimer IZ182(J)" 2018-11-22.
- Korea Testing & Research Institute Report no. KTR-PSPC-230 "Ballast Tank Protective Coating Test of 320μm Intershield 300HS over Cerabond 2000" 2018-11-23.
- Korea Testing & Research Institute Report no. KTR-PSPC-232 "Ballast Tank Protective Coating Test of 320μm Intershield 300HS over Galvany Shopprimer IZ182(S)" 2018-11-23.
- Korea Testing & Research Institute Report no. KTR-PSPC-234 "Ballast Tank Protective Coating Test of 320μm Intershield 300HS over KCI Zinc 1000" 2018-11-23.
- Element Materials Technology Report No. N972291-3 "TEST PROCEDURES FOR COATING QUALIFICATION, crossover test, Coating system (Intershield 300HS over Interplate 8010)" issued 2019-05-24.

Marking of product

Product/package shall be marked with *manufacturer's name and address*; **International Paint (Korea) Ltd. – Chilseo Factory, Korea** and *type designation*; **Intershield 300HS**, 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 and 3.5 years (Certificate Retention) and at renewal after 5 years (Certificate Renewal).

END OF CERTIFICATE