Certificate No:
TAK000021X

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Protective Coating Systems - Cargo Oil Tanks

with type designation(s)
INTERLINE 704HS

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 :

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

Issued at **Hamburg** on **2021-12-13**
This Certificate is valid until **2026-12-12**.
DNV local station: **Newcastle-upon-Tyne**

Approval Engineer: **Enno Brück**

for **DNV**

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

INTERLINE 704HS is a two pack, FDA compliant epoxy cargo tank coating offering extensive cargo resistance.

Manufactured by

International Paint (Research) Ltd. 17th Floor, National Pension Bldg. 1000, Jungang-daero, Yeonje-gu, Busan, Korea

DNV local office: Busan

Responsibility

The holder of 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.

INTERLINE 704HS is approved for application on blast cleaned surfaces and on prequalified shop primed surfaces. The following shop primer has been prequalified:

- IZ182(J) [KCC Corp.]
- IZ182(S) [KCC Corp.]
- IZ182(K) [KCC Corp.]
- Cerabond 2000 [Chugoku Marine Paints]
- Sigmaweld 165 [PPG Coatings Europe B.V.]
- Interplate 937 [International Paint Limited]
- Interplate 8010 [International Paint Limited]

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 **INTERLINE 704HS** is changed to a degree deemed significant by DNV. If the formulation of the listed pre-qualified shop primer is changed to a degree deemed significant by DNV the shop primer cannot be used as part of the Protective Coating System.

Tests carried out

Type Testing carried out in accordance with DNV -0139. The tests are carried out according to the procedures in IMO Resolution MSC.288(87) Performance Standard for Protective Coatings (PSPC), ref. IACS UI SC259:

- KOREA TESTING & RESEARCH INSTITUTE Report No. KTR-COT-PSPC-354 "CARGO OIL TANK PROTECTIVE COATING TEST OF 2 * 160 µm INTERLINE 704HS ON IZ182(J)", dated 2020-12-01.
- Element Report No.: N972211-182, "IZ 182(S) / Interline 704HS / Interline704 HS", dated 2019-02-22.
- SGS UK Ltd., Report No.: MAN240395-001, "Cargo Oil Tank Coating Test of 2 x 160µm Interline 704HS over KCC IZ182(K) shop primer", dated 2020-12-29.
- SGS UK Ltd., Report No.: MAN240396-001, "Cargo Oil Tank Coating Test of 2 x 160µm Interline 704HS over Cerabond 2000 shop primer", dated 2020-12-29.
- Element Report No.: N972211-165, "Sigmaweld 165 / Interline 704HS / Interline704 HS", dated 2019-02-22.
- Element Report No.: N972211-937, "Interplate 937 / Interline 704HS / Interline704 HS", dated 2019-02-22.
- Element Report No.: N972211-8010, "Interplate 8010 / Interline 704HS / Interline704 HS", dated 2019-02-22.

Marking of product

Product/package shall be marked with *manufacturer's name and address*;**International Paint (Research) Ltd**., Jungang-daero, Busan, Korea *type designation*; **INTERLINE 704HS**, 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 Assessment (Certificate Retention) and renewal after 5 years (Certificate Renewal) shall be performed acc. DNV CP-0338.

END OF CERTIFICATE