DNV·GL

Certificate No:
**TAK00000Y2**

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Protective Coating Systems - Cargo Oil Tanks**

with type designation(s)
**KOREPOX EH2350**

Issued to
## KCC Corporation, Ulsan Plant
**Ulsan, Republic of Korea**

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 :

**For use in cargo oil tanks of crude oil tankers. 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.**

Issued at **Høvik** on **2017-08-30**
This Certificate is valid until **2022-08-29**.
DNV GL local station: **Ulsan**

Approval Engineer: **Gisle Hersvik**

for **DNV GL**

**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.


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## Product description

**KOREPOX EH2350**; two-component, epoxy based, self-priming coatings 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.

**KOREPOX EH2350** is approved for application on blast cleaned surfaces and on prequalified shop primed surfaces. The following shop primers have been prequalified:

| | |
|---|---|
| GALVANY SHOPPRIMER IZ182(J) | [KCC Corp.] |
| SigmaWeld 165 (Sigma Proferral MC) | [PPG / Sigma Coatings] |
| KCI Zinc 1000 | [Kangnam Jevisco Co., Ltd.] |
| Cerabond 2000 | [Chugoku Marine Paints] |

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 **KOREPOX EH2350** 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.

## Type Approval documentation

## Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**. The tests reported in the EXOVA and KTR Test Reports are carried out according to the procedures in IMO Resolution MSC.288(87) Performance Standard for Protective Coatings (PSPC), ref. IACS UI SC259;

- EXOVA Test Report No. N956975, Issue 01 " Cargo Oil Tank Coating test of 2 * 160 µm of EH2350 Epoxy Paint on Galvany IZ182(J)" of 2012-11-26.
- Technical Report No. KTR-PSPC-009, Rev. 02, "Ballast Tank Protective Coating Test of 2*160 um KOREPOX EH2350 on Sigmaweld 165 (Sigma Proferral MC)" of 2008-12-24.
- Technical Report No. KTR-PSPC-012, Rev. 01, "Ballast Tank Protective Coating Test of 2*160 um KOREPOX EH2350 on KCI Zinc 1000 (SD Zinc 1000)" of 2008-12-24.
- Technical Report No. KTR-PSPC-020, Rev. 00, "Ballast Tank Protective Coating Test of 2*160 um KOREPOX EH2350 on Cerabond 2000" of 2009-09-21.

## Marking of product

Product/package shall be marked with *manufacturer's name and address*; **KCC Corporation, Ulsan Plant, Korea** and *type designation*; **KOREPOX EH2350**, 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).

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 DNV GL Type Approval Certificate.

END OF CERTIFICATE