

TYPE EXAMINATION CERTIFICATE

This is to certify:**That the Protective Coating Systems - Offshore Structures**

with type designation(s)

EP-116 (1x60 µm) / EP-988 (2x240 µm) / No.54HB (1x60 µm)

Issued to

**Yung Chi Paint & Varnish Mfg. Co. Ltd.
Kaohsiung, Taiwan**

is found to comply with

NORSOK M-501, Surface preparation and protective coating (Edition 6, February 2012)**Application :****For use in Coating System No. 7B in accordance with the stated Standard.**Issued at **Høvik** on **2017-06-12**This Certificate is valid until **2019-06-30**.for **DNV GL**DNV GL local station: **Kaohsiung**Approval Engineer: **Gisle Hersvik**

**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 Examination Certificate and not to the approval of equipment/systems installed.



Product description

EP-116 (1x60 µm) / EP-988 (2x240 µm) / No.54HB (1x60 µm)

Description of the coating system, tested on bare steel;

- **EP-116** Epoxy Multi-Purpose Primer
- **EP-988** Epoxy High Solids Coating for Anti-Corrosion
- **No.54HB** High Build Fluoro Carbon Paint

The tested coating system is defined in accordance with Norsok M-501.

The testing has been performed with basis in test requirements of Norsok M-501 (for Coating system no. 7B, for protection of submerged carbon and stainless steel ≤50°C).

Coating system no. 7B is defined in Norsok M-501, Surface preparation and protective coating, Rev. 6, February 2012, as two-component epoxy based coating, a minimum of 2 coats and a total DFT of min. 350 µm.

For details on Coating system no. 7B, please refer to Norsok M-501, Rev. 6, February 2012.

Application/Limitation

This approval is solely connected to the corrosion prevention properties of the coating system. The approval does not include any evaluation of toxicity, contamination, pollution, or fire technical aspects.

Type Examination documentation

Tests carried out

Type Testing carried out in accordance with **Type Examination documentation**, ref.:

- CCS-DNV Technology Institute Technical Report No. CDTI-CL-15F008 "Pre-qualification Testing in accordance with Norsok M-501, Rev. 6, System No. 7B used in the Submerged Zone" of 2015-04-07.

Marking of product

Products forming parts of the coating system shall be marked with *manufacturer's name*; **Yung Chi Paint & Varnish Mfg. Co. Ltd., Taiwan** and *type designations*.

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 Examination Certificate.

Periodical assessment

The scope of the Periodical Assessment is to verify that the conditions stipulated for the Type Examination is complied with and that no alterations are made to the product design or choice of materials.

Periodical Assessment to be performed after two (2) years (Certificate Retention) and at renewal after four (4) years (Certificate Renewal).

The main elements of the Periodical Assessment are to:

- Ensure that **Type Examination documentation** is available.
- Review design, materials, production process, and performance with respect to possible changes, in order to ensure compliance with **Type Examination documentation** and/or referenced material specifications.
- Ensure traceability between manufacturer's product marking and the DNV GL Type Examination Certificate.



Job Id: **262.1-022373-1**
Certificate No: **TAK00000WB**

END OF CERTIFICATE