



Certificate No:
TAK0000238

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Protective Coating Systems - Offshore Structures

with type designation(s)

Rainboprime 973 (1x150 µm) + Rainboprime 962 (1x150 µm)

Issued to

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

is found to comply with

NORSOK Standard M-501 Surface preparation and protective coating, Edition 6, February 2012

Application :

The coating system has been tested to Coating System No. 7B requirements in accordance with the stated Standard. The coating system is not specified in accordance with the stated Standard. The use of the tested coating system to be evaluated in each individual case.

Issued at **Høvik** on **2021-11-10**

This Certificate is valid until **2026-11-09** .

DNV local unit: **Kaohsiung**

for **DNV**

Approval Engineer: **Gisle Hersvik**

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Gustav Heiberg
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.



Form code: TA 281

Revision: 2021-10

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Product description

Rainboprime 973 (1x150 µm) + Rainboprime 962 (1x150 µm)

Description of the Coating system, tested on bare steel:

- **Rainboprime 973** Two-pack anti-corrosion primer based on epoxy resin
- **Rainboprime 962** Two-pack anti-corrosion primer based on epoxy resin

The tested coating system is not specified in NORSOK M-501 and therefore not 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 $\leq 50^{\circ}\text{C}$), however this does not indicate that the coating system is accepted as an alternative of the system specified in NORSOK M-501.

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.

This Type Approval certificate is not valid for designs, components, equipment, systems or products which are subject to classification by DNV.

Type Approval documentation

Tests carried out

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

- Test and Verifying Center for Ship Materials on Coatings and Paintings Technical Report No. JX21125 "YCP-1: Rainboprime 973 1x150 µm + Rainboprime 962 1x150 µm" of 2021-06-15.

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 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 and 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