

# TYPE EXAMINATION CERTIFICATE

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

with type designation(s)

**Rainbow Aqua 3412 (1x80 µm) / Rainbow aqua 3800 (1x90 µm) / Rainbow aqua 3830 (1x90 µm) / Rainbow aqua 3751 (1x30 µm) / Rainbow aqua 3751 (1x30 µm)**

Issued to

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

is found to comply with

**ISO 20340:2009 "Paints and varnishes – Performance requirements for protective paint systems for offshore and related structures"****Application :****For use as coating system in environment of corrosivity category C5-M (atmospheric zone) in accordance with the stated Standard.**Issued at **Høvik** on **2016-01-28**This Certificate is valid until **2020-01-27**.DNV GL local station: **Kaohsiung**Approval Engineer: **Gisle Hersvik**for **DNV GL**

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**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

**Rainbow Aqua 3412 (1x80 µm) / Rainbow aqua 3800 (1x90 µm) / Rainbow aqua 3830 (1x90 µm) / Rainbow aqua 3751 (1x30 µm) / Rainbow aqua 3751 (1x30 µm)**

Description of the Coating system, tested on bare steel;

- **Rainbow Aqua 3412** Water-based Inorganic Zinc Silicate
- **Rainbow aqua 3800** Water-base Epoxy Aluminium Tripolyphosphate Primer
- **Rainbow aqua 3830** Water-base Epoxy M.I.O. Coating
- **Rainbow aqua 3751** Water-base Polyurethane Topcoat

For use as coating system in "environment of corrosivity category C5-M" (atmospheric zone) in accordance with ISO 20340:2009. The system shall be applied in the same thicknesses as stated above, however, please refer to the ISO 20340:2009, Section 6.2, Table 3 (Corrosivity category of environment C5-M) regarding minimum requirements for the protective coating system.

## 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-15F025 "Pre-qualification Testing in accordance with ISO 20340:2009, Category C5-M" of 2015-12-11.

## 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.

END OF CERTIFICATE