

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Shop Primers**with type designation(s)
SP-09 Cathozinc Shop Primer, Type 2

Issued to

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

is found to comply with

Det Norske Veritas' Type Approval Programme 1-602.2, 2009, Shop Primers for Corrosion Protection of Steel Plates and Sections.**Det Norske Veritas' Rules for Classification of Ships****Det Norske Veritas' Offshore Standards****Application :****The shop primer is approved for application on blast cleaned steel plates and sections.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2019-06-30**.Issued at **Høvik** on **2015-06-22**DNV GL local station: **Kaohsiung**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.



Job Id: **262.1-011725-2**
Certificate No: **TAK000000D**

The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Product description

SP-09 Cathozinc Shop Primer, Type-2; A two-pack ethyl silicate based inorganic zinc shop primer

Application/Limitation

The approval testing does not include examination of possible effects of welding with this primer on the welder's state of health.

This approval only verifies that the shop primer tested has no detrimental effect on the finished weld, on condition that the film thickness applied is in accordance with the manufacturer's recommendation.

Type Approval documentation

Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**, ref. Test Report from Yung Chi Paint & Varnish Mfg. Co., Ltd. of 2007-04-19, with the result:

- <0.1% porosity (max. allowed porosity 15%).

Marking of product

Product shall be marked with *manufacturer's name*; **Yung Chi Paint & Varnish Mfg. Co., Ltd., Taiwan** and *type designation*; **SP-09 Cathozinc Shop Primer, Type-2.**

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 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 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 the DNV GL Type Approval Certificate.

END OF CERTIFICATE