

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Shop Primers**

with type designation(s)
702 Epoxy Rich Zinc Shop Primer

Issued to

Zhejiang Yutong New Material Co., Ltd.
No. 11 Shengyang Road, Shangma Industrial Park,
Wenling Economic Development Area
Taizhou 317513, P.R. of China

is found to comply with
DNV GL class programme DNVGL-CP-0109 – Type approval – Shop primers for corrosion protection of steel plates and sections

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.

Issued at **Hamburg** on **2018-03-16**

This Certificate is valid until **2022-10-31**.

DNV GL local station: **Ningbo**

for **DNV GL**

Approval Engineer: **Christine Löll**

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Thorsten Lohmann
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.



Product description

702 Epoxy Rich Zinc Shop Primer is a two-component zinc silicate shop primer

Manufactured by

Zhejiang Yutong New Material Co., Ltd., No.11 Shengyang Road, Shangma Industrial Park,
Wenling Economic Development Area, Taizhou 317519, P.R. of China

DNV GL local office: Ningbo

Responsibility

The Company (stated on the front page of this Certificate) takes the responsibility that both design and production are in compliance with Rules, Standards and/or Regulations listed on page 1 of this certificate.

Application/Limitation

The shop primer is approved for applications on blast cleaned steel plates and sections.

The approval does not include any examination of possible effects of welding with this primer on the welders' 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 according to **Type Approval documentation**, ref. Synthetic Test Institute, Hudong-Zhonghua Shipbuilding (Group) Co., Ltd., Report No. W0707 of 2007-06-01 "Determination of the porosity level according to DIN EN ISO 17652-2: 200307 (former DVS 0501)" of 2017-10-06, with results:

- Mean total area of pores: 2,0 mm² (max. allowed pore area ≤125 mm²).

Marking of product

Product shall be marked with manufacturer's name, place of manufacture, and type designation. 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.



Job Id: **262.1-027885-1**
Certificate No: **TAK000015G**

- 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