DNV·GL

Certificate No:
TAK00001CS

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Shop Primers

with type designation(s)
CERABOND 2000

Issued to
Chugoku Marine Paints, Ltd. (Hiroshima Head Office)
OTAKE CITY, HIROSHIMA, Japan

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

Issued at **Høvik** on **2018-10-15**
This Certificate is valid until **2023-10-14**.
DNV GL local station: **Hiroshima**

Approval Engineer: **Gisle Hersvik**

for **DNV GL**

Rikard Törnqvist
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.

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Product description

CERABOND 2000: A zinc based shop primer with a combination of heat resistant alloy and heat resistant silicate solution.

Manufactured by

Chugoku Marine Paints, Ltd., Shiga Factory, 2306-7, Mikami, Yasu-city, Shiga Pref., 520-2323 Japan

DNV GL local station: Hiroshima

Chugoku Samhwa Paints Ltd., 322, Gimhae-daero 927beon-gil, Hallim-myeon, Gimhae-si, Gyeongsangnam-do, 50850 Republic of Korea

DNV GL local station: Gimhae

Chugoku Marine Paints (Shanghai), Ltd., 4677, Jiasong Road (North) Jiading, 201814 Shanghai, China

DNV GL local station: Shanghai

Chugoku Paints B.V., Sluisweg 12, Heijningen, 4794SW, The Netherlands

DNV GL local station: Rotterdam

Chugoku Paints (Malaysia) Sdn. Bhd., PLO 430, Jalan Emas Dua, Pasir Gudang Industrial Estate, 81700 Pasir Gudang, Johor, Malaysia

DNV GL local station: Singapore

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 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. DNV Test Report No. 530 15178/98-01 Rev. 01 “Type Approval Testing of CERABOND 2000” of 1998-09-18, with the results:

- 6.5% and 9.4% porosity (max. allowed porosity 15%) for the two test pieces, respectively.

Marking of product

Product shall be marked with *manufacturer’s name*, *place of production* 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.
- 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