Certificate No:
TAK0000246

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Shop Primers

with type designation(s)
CMP CERAZEUS

Issued to
Chugoku Marine Paints, Ltd. (Hiroshima Head Office)
Otake, Hiroshima Pref., **Japan**

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

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Hamburg** on **2022-04-04**
This Certificate is valid until **2027-04-03**.
DNV local station: **Kobe**

Approval Engineer: **Christine Löll**

for **DNV**

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.

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.

Product description

CMP CERAZEUS: Inorganic zinc silicate shop primer

Manufactured by

CHUGOKU MARINE PAINTS, LTD., SHIGA FACTORY, 2306-7, Mikami, Yasu-shi, Shiga-ken, 520-2323, Japan

DNV local station: Kobe

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 application on blast cleaned steel plates and sections.

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

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

Tests carried out

Type Testing carried out in accordance with DNV CP-0109; ref. Analysis Report No. 2022-5015, Rev 01, from DNV AS Energy Systems Materials & Testing, Bergen, Norway of 2022-02-14 with the following test result:

- **CMP CERAZEUS**: < 1% porosity (max. allowed porosity 15%)

Marking of product

Product shall be marked with *manufacturer's name*; **Chugoku Marine Paints, Ltd.,** *type designation*; **CMP CERAZEUS** and *date of production/batch number*.

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.dnvgl.com.

END OF CERTIFICATE