



Certificate no.:
TAK00002AZ

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Shop Primers

with type designation(s)
Ecomel WT7100

issued to
KCC Corporation, Ulsan Plant
Ulsan, Republic of Korea

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

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.

Issued at **Hamburg** on **2023-12-08**

This Certificate is valid until **2028-12-07**.

DNV local unit: **Ulsan**

for **DNV**

Approval Engineer: **Gisle Hersvik**

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.



Form code: TA 251

Revision: 2023-09

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Product description

Ecomel WT7100: A naturally drying water-soluble paint based on water-soluble alkyd modified resin.

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.

Any significant changes in design and / or quality of the material will render the approval invalid.

Type Approval documentation

Tests carried out

Type Testing carried out in accordance with **Type Approval documentation** and DNV Test Procedure, ref. Technical Report No. TBK-2023-005453, Rev. 00 from Korea Testing and Research Institute of 2023-10-25, with the following result:

- max. 12.97% porosity (max. allowed porosity 15%).

Marking of product

Product/package shall be marked with *manufacturer's name*; **KCC Corporation, Korea** and *type designation*: **WT7100**.

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 / 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.dnv.com>

END OF CERTIFICATE