

TYPE APPROVAL CERTIFICATE

Certificate no.:
TAK00001D4
Revision No:
1

This is to certify:
that the Shop Primers

with type designation(s)
KORRO E Prefabrication Primer

issued to
Teknos Oy
Helsinki, Finland

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
DNV 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.

Issued at **Hamburg** on **2025-02-17**

This Certificate is valid until **2030-02-16**.

DNV local unit: **Finland CMC**

Approval Engineer: **Gisle Hersvik**

for **DNV**



Digitally Signed By:
Martin Wenning
Location: DNV Hamburg,
Germany

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 USD 300 000.

Product description

KORRO E Prefabrication Primer; a two-pack prefabrication primer based on epoxy resin, for temporary protection on blast-cleaned steel.

Application/Limitation

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

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

This approval only verifies that the shop primer has no detrimental effect on the finished weld, on condition 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

1. Assessment Report from DNV Finland of 2025-02-13.
2. Norner Test Report NO240891 "Testing of Shop primer KORRO E in accordance with DNV-CP-0109" of 2024-12-20, including supporting documentation.
3. Previous Type Approval Certificate Nos. WF9490076 HH3 (GL) and K-4812 (DNV).
4. Letter from TEKNOS OY of 2018-10-22.
5. Assessment Report from DNV GL Helsinki of 2018-10-17.
6. TDS for KORRO E Prefabrication Primer, Data Sheet 89, 2016-07-06.
7. MSDS for KORRO E, Version 3, 2016-04-29.
8. Application for Type Approval of 2018-08-20.
9. SLV Report no. 90 34 113 dated 18th December 1990 [Test Result: 107.7 mm²].

Tests carried out

Type Testing carried out according to **Type Approval documentation**. Please refer to testing according to DNV-CP-0109 (DNV test procedure), Norner Test Report NO240891 "Testing of Shop primer KORRO E in accordance with DNV-CP-0109" of 2024-12-20, with result:

- Mean pore area 14.1% (max. allowed pore area 15%).

Marking of product

The product shall be marked with the *manufacturer's name*: **Teknos Oy, Finland** and *type designation*: **KORRO E Prefabrication Primer**.

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