Certificate no.:
TAK00002KK

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Gelcoats and Topcoats

with type designation(s)
ENGUARD® GE Series Gelcoats,
ENGUARD® TM Series Topcoats

issued to
ALTA Performance Materials Oy
Kulloo, **Finland**

is found to comply with
DNV class programme DNV-CP-0083 – Type approval – Polyester resin, vinylester resin, gelcoat and topcoat

Application:

Gelcoat and topcoat for use in marine vessels.

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

Issued at **Hamburg** on **2025-10-17**
This Certificate is valid until **2030-10-16**.
DNV local unit: **Finland CMC**

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.

Product description

ENGUARD® GE and **ENGUARD® TM Series Isophthalic Gelcoats and Topcoats**

Approved Variants

ENGUARD® GE // YYY
ENGUARD® TM // YYY
where // refers to 5-digit colour code, YYY refers to viscosity (S for Spray and H for Brush) and gel time.

Manufactured by

ALTA Performance Materials Poland Sp. z.o.o, Miszewo 51, 80-297 Banino, Poland

DNV local station: Gdansk

Base resin manufactured at:
ALTA Performance Materials France SAS, ZI NORD 8 rue des Fontangues, 55400 Etain, France

ALTA Performance Materials Hispania S.L., Partida Povet 37, 12580 Benicarlo, Spain

ALTA Performance Materials Finland Oy, Muovitie 35, FI-06850 Kulloo, Finland

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

When applying the gelcoat, the layer must be 500 to 800 microns thick, depending on the intended use of the product manufactured.

The base resin (AROPOL® C 138) properties meet ISO 12215-1 Type A requirements, with a note that the water absorption in accordance with ISO 62 is >80 mg, i.e. 96.7 mg. Extensive testing and a well-established performance history confirm its good resistance to water, hydrolysis, and osmosis.

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**.

Marking of product

Product/package shall be marked with *manufacturer's name:* **ALTA Performance Materials**, *place of production, type designation* 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 / Certificate Renewal) shall be performed according to DNV-CP-0338.

A production site with a valid Approval of Manufacturer (AoM) certificate in accordance with DNV-CP-0425 for material in question may be exempted from the obligation concerning periodical and renewal assessments.

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