EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000BRW
Revision no.:
0

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as “Forskrift om Skipsutstyr” by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

that the **Surface materials and floor coverings with low flame-spread characteristics: - paint systems**

with type designation(s)
Penguard FSG II/Hardtop Smart Pack II

issued to
Jotun AS
SANDEFJORD, **Norway**

is found to comply with the Implementing Regulation **(EU) 2025/1533** for
Item no. **MED/3.18b** (Row **1 of 1**)
according to the following requirements:
SOLAS 74 Reg. II-2/3, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO MSC/Circ.1120, SOLAS 74 Reg. II-2/5, SOLAS 74 Reg. II-2/6, SOLAS 74 Reg. X/3

Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2025-10-10**

Expiry date: **2030-10-09**

DNV local unit:
Sandefjord

Approval Engineer:
Marcin Tobiasz

Notified Body
no.: **0575**

for **DNV AS**

Christine Mydlak-Röder
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment signed 17 October 2005, and amended by Decision No 1/2023 dated August 21st, 2023.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer’s Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

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

"Penguard FSG II/Hardtop Smart Pack II"
Paint system consisting of:
1. one layer of 150 µm (dry film thickness) primer Penquard FSG II, a two component polyamide cured epoxy coating.
2. one layer of 80 µm (dry film thickness) topcoat Hardtop Smart Pack II, a two-component, chemically curing aliphatic acrylic polyurethane coating.

Max. thickness: 230 µm (dry film thickness)
Nominal density Penguard FSG II: 1.5 kg/l
Nominal density Hardtop Smart Pack II: 1.3 kg/l

Application/Limitation

Approved for use as low flame spread surface material, not generating excessive quantities of smoke nor toxic products in fire.

Approved for use as paint system on a metallic substrate with thickness of at least 2.25 mm.

Penquard FSG II:
Approved colour: grey
Max. organic content: 46.7 wt% per dry film thickness

Hardtop Smart Pack II :
Approved for all colour variations
Max. organic content: 65.65 wt% per dry film thickness

The product satisfies the requirement for maximum calorific value (ref. SOLAS Chapter II-2, Reg 5.3.2.2) without further testing.

Each product is to be supplied with its manual for application and maintenance.

Type Examination documentation

Tests carried out

Tested according to IMO 2010 FTP Code Part 5 and Annex 2, item 2.2 and 2.3.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, Mark of Conformity and USCG Approval Number if applicable (see first page).