

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive (EU) 2015/559, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

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

with type designation(s)
Jotamastic 80/ Penguard Topcoat

Issued to
Jotun A/S
SANDEFJORD, Norway

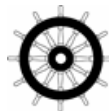
is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.18b and Annex B, Module B in the Directive. SOLAS 74, Reg. II-2/3, II-2/5, II-2/6, II-2/9 & X/3, IMO MSC/Circ. 1120, 2000 HSC Code 7 and IMO 2010 FTP Code

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

This Certificate is valid until **2021-03-30**.

Issued at **Høvik** on **2016-05-02**

DNV GL local station:
Sandefjord



for **DNV GL AS**

Approval Engineer:
Tessa Biever

Notified Body
No.: **0575**

Vidar Dolonen
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.

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 Council Directive 96/98/EC, as amended.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment.

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.



Job Id: **344.1-003044-5**
Certificate No: **MEDB00000ZK**

Product description

"Jotamastic 80/ Penguard Topcoat"

Paint system consisting of (dry film thickness) 100 µm Jotamastic 80 epoxy mastic coating and 50 µm Penguard Topcoat polyamide cured epoxy resin.

Applications/Limitations

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

Approved for use as paint systems on a metallic substrate with thickness of at least 1.5 mm.

Maximum gross calorific value shall be documented separately where applicable, ref. SOLAS Chapter II-2 Reg. 5.3.2.

Each product is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

Test Report No. VTT-S-1044-11 dated 7 February 2011 from Technical Research Centre of Finland (VTT), Finland.

Tests carried out

Tested according to IMO FTPC Parts 5 and Annex 2 item 2.2 and in compliance with IMO 2010 FTP Code Ch.8.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation, MED Mark of Conformity and USCG approval if applicable (see page 1).