

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00008KS

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: Adhesives used in the construction of "A", "B" & "C" class divisions

with type designation(s)
HK-4000 Type Marine Fireproof Sealing Adhesive

issued to
Shanghai Huoke New Material Co., Ltd.
Shanghai, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation (EU) 2023/1667,
item No. MED/3.18e. SOLAS 74, Reg. II-2/3, II-2/5, II-2/9 & X/3, IMO MSC/Circ. 1120, 2000 HSC Code 7 and IMO 2010 FTP Code

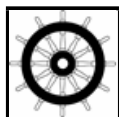
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-04-25**.

Issued at **Høvik** on **2024-04-26**

DNV local unit:
Shanghai

Approval Engineer:
Helge Bjørnarå



Notified Body
No.: **0575**

for **DNV AS**

Mydlak-Röder, Christine
Head of Notified Body



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 300,000 USD.



Product description

"HK-4000 Type Marine Fireproof Sealing Adhesive",
a fire sealing adhesive composed of silane modified polyether, aluminum hydroxide flame retardant and nano calcium carbonate.

Thickness: 2.0 mm

Density: 1450 kg/m³ - 1500 kg/m³

Application/Limitation

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

Approved colour: dark grey.

Maximum organic content: 60%

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

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

Type Examination documentation

Test report No. FT24079 dated 11 March 2024 from Far East Fire Testing Centre (FEFTC), Shanghai, China.

Tests carried out

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

Marking of product

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