DNV·GL

Certificate No:
MEDB00003TD

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 GL 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)
Hempadur Quattro 17634

Issued to
Hempel A/S
Kgs. Lyngby Hovedstaden, Denmark

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
item No. MED/3.18b. SOLAS 74, Reg. II-2/3, II-2/5, II-2/6 & 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 **2019-08-04**.

Issued at **Høvik** on **2018-02-15**

DNV GL local station:
Copenhagen

Approval Engineer:
Krzysztof Kolakowski

Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
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 Directive 2014/90/EU.
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. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

NORWEGIAN ACCREDITATION PROD 019

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Product description
"Hempadur Quattro 17634"
Consisting of one layer of Hempadur Quattro 17634, maximimum dry film thickness 160 μm.

Maximum organic content:
- HEMPADUR QUATTRO 17634 – 49.9%

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 on a metallic substrate with thickness of at least 2,25 mm.

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

Approved for all colour variations.

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

Type Examination documentation
Test Report No. PFB10110b dated 2014-04-22 from Danish Institute of Fire and Security Technology (DBI), Denmark.

Supplement to test report No. PFB10110b dated 2017-05-30 from Danish Institute of Fire and Security Technology (DBI), Denmark.

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 is to be marked with name and address of manufacturer, type designation, fire technical rating, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).