

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

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

with type designation(s)
TEFROKA®PU-1-L

Issued to

G. Theodor Freese GmbH
Bremen, Germany

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2018/773,**

item No. MED/3.18c. 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

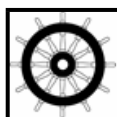
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-03-07**.

Issued at **Hamburg** on **2018-08-07**

DNV GL local station:
Bremerhaven

Approval Engineer:
Timo Linn



Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudzsus
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 European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004.

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 SE 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Product description

"TEFROKA®PU-1-L"

is a two component polyurethane coating tested on a steel plate (thickness 3 mm).

Mixing ration:	100 : 30
Density:	approx. 0,9 g/cm ³
Approved colour:	grey
Max. organic content:	none
Max. applied thickness:	3,0 mm ±0,5mm

For further details see documents under Type Examination documentation below.

Application/Limitation

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

Approved for use as floor covering on any low flame-spread floor covering, steel or non-combustible material

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

Type Examination documentation

Test report No. 20171358/01 dated 2017-11-15 from MPA Dresden GmbH, 09599 Freiberg, Germany.
Test report No. 2017-1254-1 dated 2017-10-03 from Brandhaus Rhein-Main GmbH & Co. KG, 65933 Frankfurt a.M., Germany

Tests carried out

Tested in accordance with IMO Res. MSC.307(88) – IMO 2010 FTP Code Annex 1, Part 5 and Part 2

Marking of product

The product or packing 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 page 1).

USCG Approval Category (Module B) number

This product has been assigned a U.S. Coast Guard Module B number 164.117/EC0098 to note type approval to Module B only as it pertains to obtaining US Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004.