

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 Primary deck coverings

with type designation(s)
KLB-SYSTEM EPOXID EP 216 Marine

Issued to

KLB Kötztal Lacke & Beschichtungen GmbH
Ichenhausen, Germany

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

Regulation **(EU) 2017/306**,

item No. MED/3.1. SOLAS 74 as amended, Regulation II-2/4, II-2/6 & X/3, 2000 HSC Code 7 and IMO 2010 FTP Code

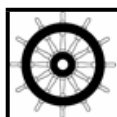
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-09-13**.

Issued at **Hamburg** on **2017-09-14**

DNV GL local station:
Augsburg

Approval Engineer:
Timo Linn



Notified Body
No.: **0098**

for **DNV GL SE**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"KLB-SYSTEM EPOXID EP 216 Marine"

Consists of an epoxy resin primer (KLB-SYSTEM EPOXID EP 52), an epoxy resin coating (KLB-SYSTEM EPOXID EP 216 Marine), combined with quartz used as bonding layer.

Max. approved thickness of about 2.5mm.

The layer structure is described as follows from bottom to top.

Layer construction:

KLB-SYSTEM EPOXID EP 52

Applied thickness:	0.3 mm
Density:	1.08 kg/L
Maximum organic content:	100%
Approved colour:	transparent/yellow

Quartz (loose scatter)

Density:	2.1 kg/L
Approved colour:	natural

KLB-SYSTEM EPOXID EP 216 Marine

Applied thickness:	2 mm
Density:	1.31 kg/L
Maximum organic content:	66%
Approved colour :	black and orange (maximum organic content)

For further details see test report as referred below.

Application/Limitation

Primary deck covering, not generating excessive quantities of smoke nor toxic products in fire.

The product may be applied over any steel or non-combustible material.

Approved for all colour variations.

The product may also be used as floor covering.

Not to be used as an integrated part of a horizontal class A division unless tested as such.

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

Type Examination documentation

Test Report no. 20161092/06 dated 13th of September 2016 from MPA Dresden, Germany
Test Report no. 2016-1625-2 dated 10th of August 2016 issued by Exova Warrington Fire, Frankfurt
Assessment Report no. 20170753 dated 29th of May 2017 from MPA Dresden, Germany

Tests carried out

Tested according to 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, Mark of Conformity and USCG approval number (see first page).