DNV·GL

Certificate No:
MEDB00004D9

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: floor coverings

with type designation(s)
Flakcrete Flooring System

Issued to
Techny Pte Ltd
SINGAPORE, Singapore

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 **2024-03-03**.

Issued at **Høvik** on **2019-03-04**

DNV GL local station:
Certification of Materials - Singapore

Approval Engineer:
Marcin Tobiasz

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"Flakcrete Flooring System"
a floor covering system consisting of:

1. a first layer of "Decolite Colour Base" with maximum thickness 250-500 microns and density between 1.1-1.4 g/cm^3,
2. a second layer of "Flakcrete Colour Flakes" with maximum thickness 500-1000 microns and density between 0.3-1.5 g/cm^3,
3. a third layer of "Decolite Epoxy" with maximum thickness 250-500 microns and density between 1.1-1.3 g/cm^3.

Overall coating system thickness is 3.64 mm with density 22.65 kg/m^3.

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 as floor covering on any low flame-spread floor covering, steel or non-combustible material.

Layer	Approved colour	Maximum organic content
"Decolite Colour Base"	white	50%
"Flakcrete Colour Flakes"	white, blue and black blend	30%
"Decolite Epoxy"	clear	90%

Several layers of floor coverings are acceptable provided that each layer is approved according to the Marine Equipment Directive and bear the mark of Conformity.

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

Type Examination documentation

Test report No. 392533 dated 27 February 2018, Issue No. 1, from Exova Warringtonfire, Warrington, UK.
Test report No. 392534 dated 26 February 2018, Issue No. 1, from Exova Warringtonfire, Warrington, UK.

Tests carried out

Tested in accordance with IMO 2010 FTP Code Parts 5 and 2.

Marking of product

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