

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 the Kingdom of Norway.

This is to certify:

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

with type designation(s)
Sigmarine 24 + Sigmarine 48

Issued to

PPG Protective and Marine Coatings B.V.
Amsterdam Noord-Holland, Netherlands

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

Regulation **(EU) 2015/559,**

Annex A.1, item No. A.1/3.18b and Annex B, Module B in the Directive; SOLAS 74, Reg. II-2/3, II-2/5, II-2/6, II-2/9 & X/3, IMO MSC/Circ. 1120, 2000 HSC Code 7 and IMO 2010 FTP Code

Manufacturers authorised representative

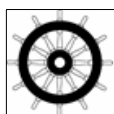
PPG Protective and Marine Coatings B.V.
Amsterdam Noord-Holland, Netherlands

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

This Certificate is valid until **2021-10-13**.

Issued at **Høvik** on **2016-10-14**

DNV GL local station:
Rotterdam, Product Certification
/Verification



for **DNV GL AS**

Approval Engineer:
Helge Bjørnara

Notified Body
No.: **0575**

Vidar Dolonen
Head of Notified Body

Product description

"Sigmarine 24 + Sigmarine 48"

System composed of two coats of a modified zink phosphate alkyd primer, Sigmarine 24 (dry film thickness 2 x 35 µm) and two coats of general purpose gloss paint based on an alkyd-modified resin, Sigmarine 48 (dry film thickness 2 x 35 µm).

Max. thickness: 140 µm (dry film thickness)

Application/Limitation

Approved for use as low flame spread material, not generating excessive quantities of neither smoke nor toxic products in fire. Approved for use throughout the accommodation.

Approved for use as paint systems on a metallic substrate with thickness of at least 3.75 mm.

Sigmarine 24:

Approved paint colour: yellow, brown, red, grey, dark grey (off-white on request)

Maximum organic content: 42 wt%

Sigmarine 48:

Approved paint colour: white

Maximum organic content: 64 wt%

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

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

Type Examination documentation

Test report No. 168503, Issue 2, dated 20 December 2007 from Bodycoat warringtonfire, Amsterdam, The Netherlands

Product data sheet for Sigmarine 24 from manufacturer.

Product data sheet for Sigmarine 48 from manufacturer.

Material safety data sheet for Sigmarine 24 from Manufacturer.

Material safety data sheet for Sigmarine 48 from Manufacturer.

Tests carried out

Tested according to IMO FTPC Parts 5 and Annex 2 item 2.2 and in compliance with IMO 2010 FTP Code Ch. 8 and Annex 2, item 2.3.

Marking of product

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