

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)
Sigma Prime 700 + Sigmarine 48

Issued to

**PPG Coatings Europe B.V. Protective & Marine Coatings
AMSTERDAM, 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

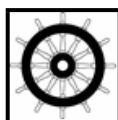
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-03-11**.

Issued at **Høvik** on **2017-03-12**

DNV GL local station:
**Rotterdam, Product Certification
/Verification**

Approval Engineer:
Helge Bjørnara



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body



Job Id: **344.1-003475-2**
Certificate No: **MEDB00002EJ**

Product description

"Sigmaprime 700 + Sigmarine 48"

paint system consisting of one coat (first layer) of the epoxy coating "Sigmaprime 700" (dry film thickness 75 µm) and one coat (second layer) of the alkyd coating "Sigmarine 48" (dry film thickness 35 µm) applied to a steel plate.

Max. thickness: 110 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.

Sigmaprime 700:

Approved paint colour: grey, redbrown, yellow/green, green

Maximum organic content: 44 % by weight (in the dry film)

Sigmarine 48:

Approved paint colour: white and other colours (see also SIGMACARE shard card)

Maximum organic content: 77 % by weight (in the dry film)

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. 151547 dated 9 February 2006 from Warrington Fire Research Centre Ltd., Warrington, UK.

Product data sheet for Sigmaprime 700 from manufacturer.

Product data sheet for Sigmarine 48 from manufacturer.

Material safety data sheet for Sigmaprime 700 base yellow/green from Manufacturer.

Material safety data sheet for Sigmaprime 700 base redbrown from Manufacturer.

Material safety data sheet for Sigmaprime 700 base grey from Manufacturer.

Material safety data sheet for Sigmaprime 700 hardener from Manufacturer.

Material safety data sheet for Sigmarine 48 from Manufacturer.

Tests carried out

Tested according to IMO FTP Code Part 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 and address of manufacturer, type designation, MED Mark of Conformity and USCG approval if applicable (see page 1).