

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: paint systems

with type designation(s)
SIGMAPRIME 700 / SIGMADUR 550

Issued to
PPG Coatings Europe B.V.
Amsterdam, Netherlands

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397**,
item No. MED/3.18b. 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

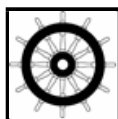
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-03-10**.

Issued at **Høvik** on **2020-03-11**

DNV GL local station:
Netherlands CMC

Approval Engineer:
Tessa Biever



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, and amended by Decision No 1/2019 dated February 22nd, 2019.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

"SIGMAPRIME 700 / SIGMADUR 550"

is a coating system composed of two (2) layers:

1. First coating layer: 100 µm "SIGMAPRIME 700" – two component epoxy system.
Weight per unit area: 1.4 g/cm³.
2. Final coating layer: 50 µm "SIGMADUR 550" – two component polyurethane system.
Weight per unit area: 1.3 g/cm³.

Total thickness: 150 µm (dry film thickness)

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 paint systems on a metallic substrate with thickness of at least 2.25 mm.

Approved colour (SIGMAPRIME 700): grey or brighter colours
Max. organic content: 45%

Approved colour (SIGMADUR 550): white
Max. organic content: 47%

Maximum gross calorific value shall be documented separately where applicable, ref. SOLAS Chapter II-2 Reg. 5.3.2.

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

Type Examination documentation

Test Report No. 321178 dated 16 August 2012 from Exova Warringtonfire, Warrington, United Kingdom.
Test Report No. 321440 dated 4 October 2012 from Exova Warringtonfire, Warrington, United Kingdom.

Tests carried out

Tested according to IMO 2010 FTP Code part 5 and part 2.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).