



# DET NORSKE VERITAS

## EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2002/75/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

**CERTIFICATE NO. MED-B-3614**

This Certificate consists of 3 pages

*This is to certify that the product*  
**Non-combustible materials**

*with the type designation(s)*

**SpreFix S**

*Manufactured by*

**Ovacon AB**

**OSKARSHAMN, Sweden**

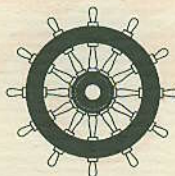
*is found to comply with the requirements in the following Regulations/Standards:*  
Annex A.1, item No. A.1/3.13 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/3.33, X/3, 2000 HSC Code 7.2.3 and IMO FTP Code.

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

*Place and date*

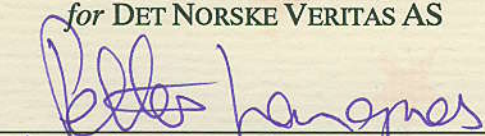
Høvik, 2006-05-24

for DET NORSKE VERITAS AS



*This Certificate is valid until*

2011-05-24

  
Tore Morten Wetterhus  
Manager, MTPNO370  
Department Systems & Components

Notified Body No. 0575

  
Helge Bjørnarå  
Surveyor

*DNV local office:*  
DNV Stockholm



*Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.*

*The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.*

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: MED-B-3614  
Job Id.: 344.1-000381  
File No.: A.1/3.13

## Product description

“SpreFix S”  
composed of mineral wool and equally mixed binder (LPA and LPB). Nominal density is 140 kg/m<sup>3</sup>.

## Applications/Limitations

Approved for use as non-combustible materials. Not to be used as an integrated part of fire retarding division, unless tested as such.

## Type Approval documentation

Test report No. 2002155320-1 dated 29 May 2002 from KIMM, Daejeon, Korea.


“Technical manual for SpreFix machine and spraying” from manufacturer.

Tested according to IMO FTPC Part 1 (IMO Res. A.799(19)).

## Marking of product

The product is to be marked with name of manufacturer, type designation and fire-technical rating and Mark of Conformity (see below).

## Mark of conformity

The manufacturer is allowed to affix the Mark of Conformity  according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

- Module D: The quality system for production and testing shall be approved by the Notified Body.
- Module E: The quality system for inspection and testing shall be approved by the Notified Body.
- Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.





Cert. No.: MED-B-3614  
Job Id.: 344.1-000381  
File No.: A.1/3.13

### USCG Approval

An 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" signed 17 October 2005.

END OF CERTIFICATE



*Auth.*



# DET NORSKE VERITAS

## EC TYPE-EXAMINATION CERTIFICATE

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**CERTIFICATE NO. MED-B-4708**

This Certificate consists of 3 pages

*This is to certify that the product*  
**Non-combustible materials**

*with the type designation(s)*

**Spraytec S**

*Manufactured by*

**Ovacon AB**

**OSKARSHAMN, Sweden**

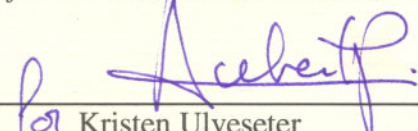
*is found to comply with the requirements in the following Regulations/Standards:*  
Annex A.1, item No. A.1/3.13 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/3.33, X/3, 2000 HSC Code 7.2.3 and IMO FTP Code.

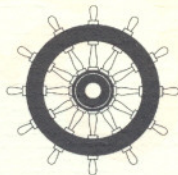
*Further details of the product and conditions for certification are given overleaf.*

*Place and date*

Høvik, 2008-04-03

for DET NORSKE VERITAS AS

  
for **Kristen Ulveseter**  
Manager, MTPNO370  
Department Systems & Components



Notified Body No. 0575

*This Certificate is valid until*

2012-11-07

  
  
**Helge Bjørnara**  
Surveyor

*DNV local office:*  
DNV Stockholm



*Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.*

*The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.*

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: MED-B-4708  
Job Id.: 344.1-000381  
File No.: A.1/3.13

## Product description

“Spraytec S”  
composed of mineral wool and equally mixed binder (LPA and LPB). Nominal density is 140 kg/m<sup>3</sup>.

## Applications/Limitations

Approved for use as non-combustible materials. Not to be used as an integrated part of fire retarding division, unless tested as such.

## Type Approval documentation

Test report No. 2002155320-1 dated 29 May 2002 from KIMM, Daejeon, Korea.


“Technical manual for Spraytec machine and spraying” from manufacturer.

Tested according to IMO FTPC Part 1 (IMO Res. A.799(19)).

## Marking of product

The product is to be marked with name of manufacturer, type designation and fire-technical rating and Mark of Conformity (see below) and USCG marking (see page 3).

## Mark of conformity

The manufacturer is allowed to affix the Mark of Conformity  according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

- Module D: The quality system for production and testing shall be approved by the Notified Body.
- Module E: The quality system for inspection and testing shall be approved by the Notified Body.
- Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.





Cert. No.: MED-B-4708  
Job Id.: 344.1-000381  
File No.: A.1/3.13

### USCG Approval

An 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.

END OF CERTIFICATE

