



MARINE DIVISION

Certificate number: 23131/A0 BV

File number: ACM 136/2103/01

Product code: 2180H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

T-ISS B.V.

Didam - NETHERLANDS

for the type of product

ANTI-SPRAYING PIPE FLANGES & JOINTS SYSTEMS

SPRAYSTOP anti-splash tape

Requirements:

- BUREAU VERITAS Rules for the Classification of Steel Ships
- SOLAS 74 as amended Regulation II-2/4.2.2.5.3
- IMO FTP Code Resolution A.653(16)

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 21 Jun 2015

For BUREAU VERITAS,

At BV ROTTERDAM, on 21 Jun 2010,

Erwin Poortvliet



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

SPRAYSTOP anti-splash tape

1.1 Specification

- Multilayer Aluminium/ Glasscloth/ PET liner with special adhesive.
- Structure: Surface printing/ Aluminium foil/ coated layer/ glass fiber layer/ silicon coated layer/ clear PET liner.

1.2 Dimensions

Code N°	Size: Width (mm) x Length (m)
87 1801	35 x 10
87 1802	50 x 10
/	100 x 10
87 1803	140 x 10
87 1804	250 x 10
87 1805	500 x 10

Total thickness (mm)

Aluminium	0.020/0.025
Glass fiber	0.110/0.120
PET film liner	0.048/0.520

1.3 Rating

- Maximum pressure (bar/psi) 21/300
- Maximum fluid temperature (°C) 150

2. DOCUMENTS AND DRAWINGS

- Manufacturer's specification sheet dated 20/04/2005
- Instructions and application manual

No departure from the above documents shall be made without the prior consent of the Society. The manufacturer must inform the Society of any modification or changes to these documents and drawings.

3. TEST REPORTS

3.1 Tests carried out: Adhesive test, shelflife, tensile strength, pressure test per the test reports N° UTCK 050413-1 dated 15/04/2005 from UTC Laboratory (Korea) and N° 2911/07/2005 dated 30/11/2005 from Gameva bv.

3.2 Surface flammability tests according to IMO Res. A.653(16) Annex 1, Part 5 per the test report N° 20050289 dated 21/06/2005 issued by the Fire Insurers Laboratories of Korea (Korea).

4. APPLICATION / LIMITATION

4.1 The SPRAYSTOP anti-splash tape may be used for screening in systems for fuel oil, lube oil and other flammable with pipe flanges and joints complying with the SOLAS 74 as amended Regulation II-2/4.2.2.5.3.

4.2 The approval is restricted to piping systems which are readily accessible for maintenance and inspection purposes.

4.3 The SPRAYSTOP anti-splash tape cannot be used for pipes insulation or as replacement for pipe gaskets and sealings.

4.4 The manufacturer has to inform the users about proper methods of application instructions and general maintenance of the SPRAYSTOP anti-splash tape.

4.5 The on-board installation is to be satisfactorily witnessed by the Society's Surveyor for each application on board ships.

5. PRODUCTION SURVEY REQUIREMENTS

5.1 The products are to be manufactured, examined and tested by the manufacturer in accordance with the approved type described in this certificate and Requirements stated on the front page of this certificate.

5.2 Production sites are to be recognized by Bureau Veritas as per NR 320 for HBV products. To this end, the manufacturer has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

5.3 The manufacturer has declared to Bureau Veritas that the products detailed in this certificate are manufactured at the production site stated on the front page of this certificate.

5.4 Bureau Veritas certificate is not required for the product to be fitted on board units to be classed with Bureau Veritas.

6. MARKING OF PRODUCT

The product or packing is to be marked according to manufacturer' specification with at least:

- Manufacturer name or logo
- Format
- Fire-technical rating

7. OTHERS

Not applicable.

***** END OF CERTIFICATE *****