



TYPE APPROVAL CERTIFICATE

Certificate No:
TAK0000185
Revision No:
1

This is to certify:

That the Epoxy Systems

with type designation(s)
Plastic Steel Weicon SF

Issued to

Weicon GmbH & Co. KG
Münster, Germany

is found to comply with

DNV class programme DNV-CP-0338 – Type approval – Type approval scheme

Application :

Repairs of machinery and equipment. The application shall be carried out in accordance with manufacturers' instructions and under survey of DNV.

Issued at **Hamburg** on **2023-11-28**

for **DNV**

This Certificate is valid until **2028-11-27**.

DNV local unit: **Essen**

Approval Engineer: **Joachim Rehbein**

Thorsten Lohmann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Plastic Steel Weicon SF: two - component epoxy resin system with filler

Application/Limitation

Repair activities for components which affect or might affect the Class of the ship, have to be reported in advance to DNV.

Installation only in accordance with DNV rules and work instruction of manufacturer.

Without further tests the maximum working temperature is restricted to 50°C.

An adequate curing shall be proven by a Shore D test. A hardness of 78 shall be achieved.

Any significant changes in design and/or quality of the material will render the approval invalid.

Type Approval documentation

Renewal **TAK0000185 rev.1** 2023:

- Application for type approval TAA 901 of 2023-02-20;
- Type approval assessment report TA 401 for HoC of 2023-03-14;
- Type approval assessment report TA 401 for PP of 2023-05-03;
- MSDS_102501_DE_DE_WEICON SF Harz;
- MSDS_102502_DE_DE_WEICON SF Härter;
- EN_GB_TDS_10250005_WEICON_SF;
- Certificate of Analysis of 2023-10-25.

Renewal **TAK0000185** 2018:

- Test report L 10.1336-2, Kunststoff-Institut Lüdenscheid, dated 2010-11-08
- Previous certificate KBZ 1143 HH
Certificate renewal 2018:
- TDS, 2017-12-05
- MSDS, Weicon SF Resin, 2017-08-07, version 1.4
- MSDS, Weicon SF Hardener, 2017-08-07, version 1.4
- Certificate of Analysis, JELN, Schwalmthal, dated 2017
- Site visit at Weicon GmbH & Co KG and JELN Imprägnierung GmbH, 2018-05-17, TA assessment report 90.02

Production site of resin and hardener:

WEICON Production GmbH
Vogelsrather Weg 25
41366 Schwalmthal
Germany

Marking of product

The product to be marked with manufacturer's name or trademark and type number identification.

Periodical assessment

Periodical assessments (for Certificate Retention and Certificate Renewal) shall be performed according to DNV-CP-0338.

This certificate is only valid if required Periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>

END OF CERTIFICATE