

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Epoxy Systems**

with type designation(s)
WEICON Ceramic BL

Issued to

Weicon GmbH & Co. KG
Münster, Germany

is found to comply with

**GL Rules for Classification and Construction VI - Additional Rules and Guidelines Part 9 -
Materials and Welding Chapter 5 - Guidelines for the Approval of Reaction Plastics and
Composite Materials for the Seating and Repair of Components**

Application :

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

Issued at **Hamburg** on **2020-04-03**

This Certificate is valid until **2025-04-02**.

DNV GL local station: **Essen**

for **DNV GL**

Approval Engineer: **Joachim Rehbein**

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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.



Job Id: **262.1-032488-1**
Certificate No: **TAK00001VG**

Product description

WEICON Ceramic BL: 2 - 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 DNVGL.

Installation only in accordance with DNVGL 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 85 shall be achieved.

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

Type Approval documentation

Marking of product

Product shall be marked with *manufacturer's name* and *type designation*.

The marking is to be carried out in such a way that it is visible, legible and indelible. The marking of product is to enable traceability to the DNV GL Type Approval Certificate.

Periodical assessment

The scope of the periodical assessments is to verify that the conditions stipulated for the certification are in compliance with the Type Approval documentation and that no alterations are made to the product design or choice of materials.

Periodical assessments will be carried out bi-yearly(Certificate Retention) and at renewal after 5 years (Certificate Renewal).

When possible, this assessments may be harmonised with normal surveys for product certification and / or other surveys and audits carried out.

END OF CERTIFICATE