



Certificate no.:
TAK00002K3

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Epoxy Systems

with type designation(s)
SikaBiresin® CR87 - Series

issued to
Sika Deutschland CH AG & Co KG
Stuttgart, Baden-Württemberg, Germany

is found to comply with
DNV class programme DNV-CP-0089 – Type approval – Epoxy resin systems
DNV rules for classification – High speed and light craft
DNV rules for classification – Yachts

Application:

Laminating resin for construction of laminates made of fibre reinforced plastics.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Hamburg** on **2026-02-26**

This Certificate is valid until **2031-02-25**.

for **DNV**

DNV local unit: **Augsburg**

Approval Engineer: **Joachim Rehbein**

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 USD 300 000.

Product description

SikaBiresin® CR87: Epoxy resin with the following hardeners:

- SikaBiresin® CH87-2
- SikaBiresin® CH87-6
- SikaBiresin® CH87-10

Material Properties

The following properties (mean values) have been verified by initial type testing:

Property	Test method	unit	CR87/CH87-2	CR87/CH87-6	CR87/CH87-10
Tensile Strength ³	ISO 527-2	MPa	70	69	67
Tensile Modulus ³	ISO 527-2	MPa	3142	3151	3099
Fracture Elongation ³	ISO 527-2	%	3.8	3.7	3.6
DSC ¹	ISO 11357	°C	76.1	74.6	75.9
Water Absorption ²	ISO 62	mg	100	88	84
Curing procedure used for type testing: 24h at 23°C, post cure 16h at 55°C					

Notes:

¹: Onset temperature, second run;

²: 28 days immersion, values exceed 80mg acc. to DNV-CP-0089;

³: Mechanical properties are confirmed after 28 days immersion

Application/Limitation

The resin complies with the applicable requirements of DNV and is compatible to the fibres, adhesives and core materials.

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, place of production, type designation and batch number*.

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 Type Approval Certificate.

Assessed production sites

Sika Deutschland CH AG & Co KG
Kornwestheimer Straße 103-107
70439 Stuttgart
Germany

Periodical assessment

The scope of the Periodical Assessment is to verify that the conditions stipulated for the Type Approval is complied with and that no alterations are made to the product design or choice of materials.

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

If an approval of manufacturer certificate, which is still valid for at least one year, is available an exemption from the obligation concerning retention and renewal surveys listed in DNV-CP-0338 will apply.

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