Certificate no.:
TAK00002G0

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Epoxy Systems

with type designation(s)
SR InfuGreen 171 / SD 477x

issued to
SICOMIN
Chateauneuf les Martigues, Bouches du Rhone, France

is found to comply with
DNV class programme DNV-CP-0089 – Type approval – Epoxy resin systems

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 **2025-06-16**
This Certificate is valid until **2030-06-15**.
DNV local unit: **France CMC**

for **DNV**

Approval Engineer: **Gisle Hersvik**

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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

SR InfuGreen 171: Two-component bio-sourced epoxy resin system for Injection and Infusion.

Approved variants
Epoxy resin **SR InfuGreen 171** with following **SD 477x** hardeners:
- SD 4772 Medium reaction hardener
- SD 4771 Slow reaction hardener
- SD 4770 Ultra slow reaction hardener

Material properties:
For material properties and approved combinations of resin and hardeners, please refer to the technical data sheet for SR InfuGreen 171 / SD 477x Green Epoxy systems for Injection and Infusion.

The following properties have been obtained by type testing of cured resin samples:

Properties	Test Method	SR IG 171 / SD 4770	SR IG 171 / SD 4772	Unit	
Tensile strength	ISO 527-1,2	66.8	71.5	MPa	mean
Fracture elongation	ISO 527-1,2	8.1	6.6	%	mean
Water absorption, 7 days	ISO 62	60	46	mg	mean
Glass transition temperature	ISO 11377-2	62	66	°C	mean
curing procedure used for type testing		24 hrs RT + 16 hrs 50°C			

mean: average of type test results

Application/Limitation

Laminating resin for construction of laminates made of fibre reinforced plastics, on condition that reinforcement fibre product complies with DNV requirements and is compatible with the resin.

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

Type Approval documentation

Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**.

Marking of product

Product shall be marked with *manufacturer's name, place of production* 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 Type Approval Certificate.

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.

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