



Certificate No:
TAK000026S

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Adhesive**

with type designation(s)
Spabond 435

Issued to

Gurit (UK) Ltd.
Newport, Isle Of Wight, United Kingdom

is found to comply with

DNV class programme DNV-CP-0086 – Type approval – Adhesive systems

Application :

Bonding of epoxy laminates.

Issued at **Hamburg** on **2023-03-15**

This Certificate is valid until **2028-03-14**.

DNV local unit: **Southampton**

for **DNV**

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.



Form code: TA 251

Revision: 2022-12

www.dnv.com

Page 1 of 2

Product description**SPABOND 435:** Two component epoxy resin system.**Approved variants**Epoxy resin **SPABOND 435** with following hardeners:

- **SPABOND 400** Fast hardener
- **SPABOND 400** Slow hardener

Material Properties

Property	Test Method	Spabond 435 Resin	Spabond 400 Fast Hardener	Spabond 400 Slow Hardener	Unit
Viscosity at 25°C	ISO 2884	3.75 – 4.75	8.5 – 10.5	7.5 – 9.5	Pa·s
Density at 21°C	ISO 1183-1B	1.11	1.08	1.04	g/cm ³

Application/Limitation

The adhesive complies with the applicable requirements of DNV and is compatible to the adherends.

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

Type Approval documentation**Tests carried out**

According to type approval documentation

Marking of product

The product or package shall be marked. The marking shall at least include the following information:

- manufacturer's name and address or trademark
- production plant
- product name (grade)
- storage instruction
- production date/batch number
- quality guarantee period, if any.

The marking shall be carried out in such a way that it is visible, legible and indelible. The marking of product shall enable traceability to the type approval certificate.

Periodical assessment

Periodical assessments are required after two years and after 3.5 years (retention survey) and for renewal after 5 years (renewal survey). Refer to DNV-CP-0338, Sec.4.

A production site with a valid Approval of Manufacturer (AoM) certificate for material in question is exempted from the obligation concerning periodical and renewal assessments.

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

Gurit (UK) Ltd.
St. Cross Business Park
Newport PO30 5WU
United Kingdom
(Holds Shop Approval, SA-DNV-SE-0436-08364-0, valid until 2024-02-28)

END OF CERTIFICATE