

TYPE APPROVAL CERTIFICATE

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

with type designation(s)
AMPREG 30

Issued to

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

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

Application :

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

Issued at **Hamburg** on **2018-09-21**

This Certificate is valid until **2023-09-20**.

DNV GL local station: **Hamburg Materials & Welding**

for **DNV GL**

Approval Engineer: **Guido Michalek**

.....
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: **262.1-029586-1**
Certificate No: **TAK00001C7**

Product description

Two component epoxy resin system.

Approved variants

Epoxy resin AMPREG 30 with following hardener

- Fast Hardener
- Standard Hardener
- Slow Hardener
- Extra-slow Hardener

Type Approval documentation

- Technical Data Sheet
- Material Safety Data Sheet
- Test Report No. 11637 issued by the DNV GL approved testing laboratory of Gurit (UK) (Approval No. AOSS0000DHK), dated on 2018-09-19.
- Approval of Manufacturer (Approval No. AMPM0000023) valid until 2021-02-28.
- Quality assurance/control documentation

Material Properties

Properties	Test Method	Ampreg 30	Fast Hardener	Standard Hardener	Slow Hardener	Extra-slow Hardener	Unit
Density at 21°C	ISO 1183-1B	1.00 – 1.20	0.90 – 1.10	0.95 – 1.15	0.90 – 1.10	0.85 – 1.05	g/cm ³
Viscosity at 25°C	Brookfield RVT	1300 - 1700	300 – 500	100 - 200	20 - 30	5 - 15	mPa·s
Gel Time at 25°C	Tecam	N/A	31.0 – 39.0	70.0 – 90.0	220.0 – 260.0	420.0 - 520.0	mins

Limitation

The resin complies with the applicable requirements of DNV GL 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.

Assessed production site

Gurit (UK) Ltd.
St. Cross Business Park
Newport PO30 5WU
United Kingdom

Gurit (Spain) S.A.
Polígono Industrial Romica, Calle 4, Parcela 11C
02080 Albacete
Spain

Periodical assessment

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

For manufacturer without a valid AoM a periodical assessment after 2.5 years and at renewal after 5 years is required.

Remarks

None

END OF CERTIFICATE