DNV·GL

Certificate No:
TAK00000VV

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Adhesive

with type designation(s)
BÜFA®-VE-Barriercoat-SV #2

Issued to
BÜFA Composite Systems GmbH & Co. KG
RASTEDE, Germany

is found to comply with
DNV GL class programme DNVGL-CP-0083 – Type approval – Polyester resin, vinylester resin, gelcoat and topcoat

Application :

Barriercoat between gelcoat and laminate

Issued at **Hamburg** on **2017-08-30**
This Certificate is valid until **2022-08-29**.
DNV GL local station: **Hamburg Materials & Welding**

for **DNV GL**

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.

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Job Id: **262.1-025676-1**
Certificate No: **TAK00000VV**

Product description
Vinyl ester resin with filler

Approved variants
Vinyl ester resin BÜFA-VE-Barriercoat-SV #2 with following hardener:
- Methy ethyl ketone peroxide (MEKP)

Application/Limitation
Layer between gelcoat and laminate.

The resin complies with the applicable requirements of DNV GL and is to be compatible to the gelcoat and laminate.
Any change in chemical composition affecting the approved properties will render the approval invalid.

Type Approval documentation
- Technical data sheet Prod. No. 722 1965, rev.2, dated 2017-05-18
- Report of tests carried out in house, March 2017; facilities witnessed by surveyor to this society
- Assessment report 90.02a, issued 2017-03-17

Material Properties

Property	**Test Method**	**Unit**	**Barriercoat-SV #2**
Density at 20/23°C	DIN 53217 – 2	g/ml	0,90
Viscosity at 20°C	ISO 2555[1)]	mPa s	22000 - 28500
Reactivity at 20-30°C	DIN 16945[2)]	Min	10 – 15 min

1) Brookfield RV/DV-II Spl.4 rpm.3
2) BÜFA method in accordance with DIN 16945, 6.2.2.1 with 100g Barriercoat + 2ml MEKP

Assessed production site
BÜFA Composite Systems GmbH & Co. KG
Hohe Looge 2-8
26180 Rastede
Germany

Marking of product
The product is to be marked with manufacturer’s name or trademark and type number identification.

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.

END OF CERTIFICATE