

Statement of Approval



Approval No. **WP 1320005 HH**

The material described below complies with the applicable requirements as given in the Rules and Regulations of Germanischer Lloyd. On this basis the material is

approved as **Coating System with High Solid Primer and Topcoat**

for the construction of components made of FRP provided that the recommendations for use as specified by the producer are observed.

Description	Multi-Layer System for Fibre Reinforced Plastics
Producer	BASF Coatings GmbH Donnerschweer Strasse 372 26123 Oldenburg Germany
Normative Reference	Rules for Classification and Construction, II - Material and Welding Technology Part 2 Non-Metallic Materials
Remarks	The specific layer structure is described in the annex.

This document consists of this page and a one-page annex which is integral part of the approval.

This Statement of Approval is valid until 2016-04-30.

Hamburg, 2013-01-15

Germanischer Lloyd

i.A.

Guido Michalek

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Stefan Röhr

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ANNEX

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Date: 2013-01-15
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- Reference Documents Technical specifications deposited at Germanischer Lloyd Head Office.
- Assessed Documents - Technical Data Sheets
- Test Report No. A411674 issued by Fraunhofer IFAM, dated on 2011-09-13
- Fields of Application Surface coating for FRP, on condition that the coating system comply with the applicable requirements of the Germanischer Lloyd and are compatible to the fibres and the laminating resins.
- Limitations Any significant changes in design and/or quality of the material will render the approval invalid.
- Layer structure - RELEST WIND Putty Porefiller (optional)
- RELEST WIND TOPCOAT HS (Primer)
- RELEST WIND TOPCOAT HS (Topcoat)

Testing Following test results have been verified by testing:

	Test Conditions	Unit	Results
Mandrel Bend Test according to ISO 1519	- 2 mm at RT - 5 mm at -40°C - 14 mm after 1000h UV-B	—	no damages
Pull-off test according to ISO 4624	- at RT - after humidity effects ^[1] - after UV-B radiation ^[2]	[MPa]	≥ 5
Determination of specular gloss according to ISO 2813	60°	—	< 30
Taber Abraser according to ASTM D 4060	CS 10, 1000g 1000 rotations	Loss of weight [mg]	≤ 100
UV-B testing according to ASTM D 4587 ^[2]	Method A 1000h	Colour deviation ^[3] [dE]	≤ 2,5
Resistance to humidity ^[1]	1000h	—	no changes visible 0(S0)

[1] According to ISO 6270-2 CH at 40°C and 100% humidity

[2] 4h UV-exposure at 60°C and 4h moisture condensation at 50°C, 1000h.

[3] Colour deviation according to DIN 6174

End of Annex

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