

## BÜFA®-MARINE-NPG-Gelcoat-S

ISO/NPG Gelcoat, spraying quality

Prod. No. 748-9999

**Product description** BÜFA®-MARINE-NPG-Gelcoat-S is a pre-accelerated gelcoat in a spraying consistency. It is based on an unsaturated ISO/NPG polyester resin dissolved in styrene.

**Applications** BÜFA®-MARINE-NPG-Gelcoat-S is suitable for mouldings subjected to higher chemical, thermal and hydrolytic loads. Furthermore, the gelcoat has excellent resistance to weather. BÜFA®-MARINE-NPG-Gelcoat-S was especially developed for use in boat and ship construction.

Specifications / technical data	Property	Test method	Value	Unit
	Density at 20 °C	DIN 53 217/2	approx. 1.1 - 1.3	g/ml
	Viscosity at 20 °C Brookfield RV/DV-II spl 4 rpm 4	ISO 2555	14,000 - 22,000	mPas
	Styrene content		35 - 38	%
	Flash point	DIN 53 213	+ 32	°C

**Curing** **Reactivity:**  
**BÜFA method in accordance with DIN 16 945 6.2.2.1**  
(100 g gelcoat + 2 ml Butanox M-50)

20 - 30 °C	8 - 16 min
20 °C - Tmax	16 - 28 min
Tmax	160 - 190 °C

**Gel time at 20 °C in a 100 g cup with 2 ml Butanox M-50:** 8 - 16 min

**Attention!**

The information given above refers exclusively to the use of the catalysts named and the quantities specified. The use of different products or differing quantities may yield different results. Density depends upon pigmentation.

**Colouring** BÜFA®-MARINE-NPG-Gelcoat-S can be supplied in most RAL colours and a number of other shades. It is also available as an unpigmented base gelcoat with higher viscosity and reactivity under Product No. 748-

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0001. If there is sufficient order volume, colour matching is also possible.

## Properties of the cured base resin

<u>Property*</u>	<u>Test method</u>	<u>Value</u>
<b>Tensile strength</b>	DIN 53 455	80 - 90 MPa
<b>Tensile E-modulus</b>	DIN 53 457	3,400 - 4,000 MPa
<b>Elongation at break</b>	DIN 53 455	3.5 - 4.5 %
<b>Heat distortion temperature (HDT)</b>	ISO 75-A	approx. 94 °C

\* measured in a standard laboratory atmosphere on cast test specimens made of pure resin that were conditioned for 8 hours at + 80 °C.

## Directions for use

Our release agent system BF 500 / BF 700 has been tested and successfully used with this gelcoat. Before using other release agents, they should be tested for suitability under practical conditions. If circumstances permit, we recommend post-curing the moulded part for several hours at 80 °C to optimise performance characteristics. For more information on working and curing, see the notes in our Technical Information leaflet "Working with OLDOPAL -Gelcoats".

## Storage/Handling

This product must be stored cool in closed containers, protected from sunlight. Shelf-life is at least 3 months in unopened, original containers stored up to a temperature of 20 °C. Gel and curing times may change with increasing duration of storage.

Note: The Information given above is based on our current state of knowledge and experience. In view of the many factors that may influence working conditions and the application of our products, the user is not relieved from carrying out his own tests and experiments. No legally binding warranty of certain properties or suitability for a particular purpose can be derived from this information. It is the responsibility of the receiver or user of our products to observe proprietary rights as well as existing laws and regulations. The latest version of the corresponding EU Safety Data Sheet must also be observed.

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Gelcoat Plus

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A member of the BÜFA-Group