

## BÜFA®-FIRESTOP GC S 250-S/NV

UP Fire Protection Gelcoat, spraying quality

Prod. No. 7142500

### Product description

BÜFA®-Firestop GC 250-S/NV transparent is a flame retarding gelcoat in a spraying consistence. It is based on a special elasticised mixture of unsaturated isophthalic acid polyester resins dissolved in styrene and MMA. The gelcoat has not been pre-accelerated and contains less styrene the most gelcoats in this category.

Its fire protection properties are achieved by the addition of ATH. Special additive ensure low smoke density in case of fire. In the layer thicknesses normal for gelcoats (400-600 µm), it does not essentially influence the fire behaviour of the laminating resin used. BÜFA®-Firestop GC 250-S/NV transparent is halogen-free and does not contain any additives on a phosphorous or nitrogen base that could have a negative effect on resistance to weather. Because of the fillers used, there may be a slight, earlier loss of gloss on the surface.

BÜFA®-Firestop GC 250-S/NV transparent is highly elasticised and can be easily pigmented as a rule with OLDOPAL UP Pigment Pastes. The gelcoat is also distinguished by good wetting properties even on difficult release agents.

### Applications

BÜFA®-Firestop GC 250-S/NV transparent is suitable for moulded parts that are used indoors and outdoors and subjected to normal loads such as furniture, machine parts, frames for domed roof-lights, etc. If components are subjected to water loads or extreme weathering, gelcoat formulations on an ISO or ISO/NPG base should be used. In this case, attention must be paid to the thickness of the layer of gelcoat as well as increased flame retarding properties of the laminating resin.

### Specifications / technical data

Property	Test method	Value	Unit
Density at 20 °C	DIN 53 217/2	1,25	g/ml
Viscosity at 20 °C Brookfield RV/DV-II Spl 5. rpm 5.	ISO 2555		mPas
Monomer content		21 - 24	%
Flash point	DIN 53 213	27	°C

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## Curing

### Reactivity:

#### **BÜFA method in accordance with DIN 16 945 6.2.2.1**

(100 g gelcoat + 0.25 % Accelerator 021-0010 + 2 ml Butanox M-50)

or

(100 g gelcoat + 2.00 % Accelerator NL 49 P Akzo Nobel + 2 ml Butanox M-50)

20 - 30 °C

10 - 15 min

20 °C - Tmax

30 - 40 min

Tmax

80 - 110 °C

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

10 - 15 min

### Attention!

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

## 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 6 hours at 80 °C to achieve optimal gelcoat properties. For more information on working and curing, see the notes in our Technical Information leaflet, "Working with BÜFA®-Gelcoats".

## Note:

The thickness of the laminate and its entire construction, including any top coats, varnishes, applications, sandwich components, etc. also have a decisive influence on fire behaviour. Always remember that individual component tests are mandatory for most applications.

## Storage/Handling

This product must be stored cool in closed containers, protected from sunlight. Shelf-life is at least 6 months in unopened, original containers stored up to a temperature of 20 °C. Gel and curing times may change with increasing duration of storage.

## Former product name

722-0250 BÜFA®-Firestop S 250-S natural

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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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