

## BÜFA®-Firestop GC S 270-NV Grey BF-70035

Fire Protection Gelcoat, spraying quality

Prod. No. 7142702

### Product description

BÜFA®-Firestop GC S 270 NP Grey BF-70035 is a unaccelerated, pigmented gelcoat in a spraying consistence. The gelcoat is halogen-free and based on a VE resin dissolved in styrene. Thanks to a precisely coordinated combination of special flame retardant additives, outstanding fire protection properties are achieved with this gelcoat.

BÜFA®-Firestop GC S 270 NP Grey BF-70035 is a gelcoat that reliably protects the UP resin behind laminates from flames.

We recommend combining BÜFA®-Firestop GC S 270 NP Grey BF-70035 with our BÜFA®-Firestop resins in general to best utilise the synergies of products that are coordinated to each other.

### Applications

BÜFA®-Firestop GC S 270 NP Grey BF-70035 can be used for facade panels, fire protection doors, laboratory and ship doors, rail vehicles, wagon construction. In individual cases, use for other objects requires clarification.

### Specifications / technical data

Property	Test method	Value	Unit
Density at 20/23 °C	DIN 53 217/2	1,4	g/ml
Viscosity at 20 °C Brookfield RV/DV-II Spl . 5 / rpm . 5	ISO 2555	25000 - 32000	mPas
Flash point	EN ISO 3679:2014 Verfahren B	28,5	°C

### Curing

#### Reactivity:

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

(100 g gelcoat + 1.0 g BÜFA®-Accelerator Complex 0399 (742-0399) + 2.0 ml Curox M 102)

20 - 30 °C	9 - 15 min
20 °C - Tmax	22 - 27 min
Tmax	100 - 112 °C

# BÜFA®-Firestop GC S 270-NV Grey BF-70035

Fire Protection Gelcoat, spraying quality

Prod. No. 7142702

**Gel time at 20 °C in a 100 g cup  
with 1.0 g BÜFA®-Accelerator Complex 0399 (742-0399)  
and 2.0 ml Curox M 102: 9 - 15 min**

The quantity of accelerator added should not be less than 0.6 % by weight per 100 g material.

## **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.

## **Colouring**

BÜFA®-Firestop GC S 270 NP Grey BF-70035 is a standard shade of colour formulation that is activated by adding BÜFA®-Accelerator 0399. The use of other accelerators may change the shade of the colour. To achieve good fire protection properties, a high percentage of fire protection additives are required which makes colour stability impossible. The gelcoat has a tendency to change colour within a short period of time which makes it generally necessary to varnish visible surfaces.

## **Directions for use**

The release agent system BÜFA®-Release Agent SP waterborn 741-0080 has been tested and successfully used with this BÜFA®-Firestop GC S 270-NV GREY BF-70035. Before using other release agents, they should be tested for suitability under practical conditions. Stir the gelcoat gently before using. The thickness of the wet film should ideally be 1000 µm and should not be less than 800 µm wet. After approx. 60 minutes laminating can be carried out with a sound bond. To ensure a sound bond, laminating work must be carried out after 4 hours at the latest.

If circumstances permit, we recommend post-curing the moulded part for 6 hours at approx. + 80 °C to achieve optimal gelcoat properties. We recommend the application of a coat of protective varnish in general for objects exposed to weather.

To achieve the best possible coating results on BÜFA®-Firestop GC S 270, our experience has shown that this gelcoat is best sealed with an EP or acrylic resin solvent based primer. Water based finishes can then be applied. An EP primer prevents water from directly contacting the surface of the gelcoat.

# BÜFA®-Firestop GC S 270-NV Grey BF-70035

Fire Protection Gelcoat, spraying quality

Prod. No. 7142702

The finished, gelcoated component should never be directly exposed to outdoor weather (at the most storage under a roof). Before coating, the component must be dried again.

For more information on working and curing, see the notes in our Technical Information leaflet, "BÜFA®-Firestop GC S 270".

## 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.

## Fire protection properties

BÜFA®-Firestop GC S 270 NP Grey BF-70035 was tested in orientational tests with a 4 mm thick glass fibre laminate (Resin: BÜFA®-Firestop 8175-W-1) with 40 Glascontent, weight percent with following results:

**DIN 5510:** S 4/SR 2/ST 2 (Gelcoat layer 500 µm wet)  
**NF F 16-101:** M 1/F1 (Gelcoat layer 800 µm wet)

Orientalional tests with a 4 mm thick glass fibre laminate (Resin: BÜFA®-Firestop S 570) with 30 Glascontent, weight percent with following results:

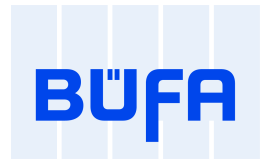
**CEN TS 45545:** HL 2 (Gelcoat layer 800 µm wet)  
**NFF 16-101:** M1 / F1 (Gelcoat layer 800 µm wet)

The laminates were produced under ideal, controlled, laboratory conditions. This information does not replace component tests by the manufacturer.

## 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 at a temperature between 5 °C and 20 °C. Avoid frost. Higher temperatures reduce shelf-life. 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.



# **BÜFA®-Firestop GC S 270-NV Grey BF-70035**

**Fire Protection Gelcoat, spraying quality**

**Prod. No. 7142702**

Hohe Looge 2-8  
26180 Rastede  
GERMANY  
Phone +49 4402 975-0  
Fax +49 4402 975-300  
compositesystems@buefa.de  
www.buefa.de  
www.buefacompositesystems.com

A member of the BÜFA-Group