

BÜFA®-Firestop GC S 285-SV nature

Fire Protection Gelcoat, spraying quality

Prod. No. 7142851

Product description

BÜFA®-Firestop GC S 285-SV nature is a pre-accelerated, pigmented gelcoat in a spraying consistence. The gelcoat is halogen-free and based on an isophthalic acid 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 285-SV nature is a gelcoat that reliably protects UP resin behind laminates from flames.

We recommend combining BÜFA®-Firestop GC S 285-SV nature with our BÜFA®-Firestop-resins in general to optimally utilise the synergies of products that are coordinated to each other.

Applications

BÜFA®-Firestop GC S 285-SV nature can be used for facade panels, fire protection doors, laboratory and ship doors, rail vehicles, wagon construction, depending on fire protection requirements. Use on other objects must be clarified in advance in each individual case. We recommend the use of a suitable protective coating which should be coordinated with our Technical Service Department.

Specifications / technical data

Property	Test method	Value	Unit
Density at 20 °C	DIN 53 217/2	1,354	g/ml
Viscosity at 20 °C Brookfield RV/DV-II Spl . 5 / rpm . 5	ISO 2555	17000 - 21000	mPas
Flash point	DIN 53 213	13	°C

Curing

Reactivity:
BÜFA method in accordance with DIN 16 945 6.2.2.1
(100 g gelcoat + 2.0 ml Curox M-303)

20 - 30 °C	22 - 30 min
20 °C - Tmax	45 - 65 min
Tmax	65 - 100 °C

Gel time at 20 °C in a 100 g cup:
(100 g gelcoat + 2.0 ml Curox M-303) 22 - 30 min

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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.

The use of Curox M-102 or comparable peroxides from other manufacturers is not possible.

Colouring

BÜFA®-Firestop GC S 285-SV nature can be tinted if required. A maximum addition of 6% pigment paste should not be exceeded. Due to the content of flame retarding additives, stronger deviations in the shade of colour must be expected.

Tinted gelcoats must be tested to ensure sufficient fire protection properties.

This gelcoat tends to change colour quickly which generally makes a coating necessary for visible surfaces.

Directions for use

Our release agent system BÜFA®-Release Agent SP waterborn 741-0080 has been tested and successfully used with this gelcoat. Before using other release agents, they should be tested for suitability under practical conditions.

Stir the gelcoat gently before using.

The ideal thickness of the wet film should be 800 µm and should not be less than 600 µm. Laminating can be carried out with a sound bond after approx. 60 minutes, however, to guarantee a sound bond, laminating 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 the best possible fire protection properties.

Note:

Due to the high content of flame retarding additives, there may be limitations to the degree of gloss and surface quality that can be achieved.

The thickness of the laminate and its entire construction, including any top coats, varnishes, applications, sandwich components, etc. also have a decisive influence on reaction to fire.

Always remember that individual component tests are mandatory for most applications which are the responsibility of the manufacturer.

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Fire protection properties

Orientation tests on a 4 mm thick glass fibre laminate (resin: BÜFA Firestop 8175-W-1) with 30 % by weight glass content produced the following results:

EN 45545 (R1, R7, R 17): HL 3 (wet gelcoat layer 700 µm thick)

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 and weather. Shelf-life is at least 3 months in unopened, undamaged, original containers stored at a temperature between 5 ° 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.

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