

BÜFA®-Firestop S 520

Fire Protection Injection Resin

Prod. No. 7160520

Product description BÜFA®-Firestop S 520 is a pre-accelerated, thixotropic injection that is highly reactive with low viscosity and made of a special DCPD resin dissolved in styrene.

The resin is halogen-free and contains aluminium hydroxide as a flame retardant.

Applications BÜFA®-Firestop S 520 is used for the production of moulded parts with fire protection properties in RTM processes.

Specifications / technical data	Property	Test method	Value	Unit
	Non-volatile constituents		71-73	%
	Viscosity at 20 °C Brookfield RV/DV-II Spl 5 rpm 20	ISO 2555	600-1000	mPas
	Density at 20/23 °C	DIN 53 217/2	1,35-1,45	g/ml
	Flash point	DIN 53 213	31	°C

Curing **Reactivity:**
BÜFA method in accordance with DIN 16 945 6.2.2.1
 (100 g resin + 2 ml Butanox M-50 or Curox M 303)

20 - 30 °C	11 - 18 min
20 °C - Tmax	25 - 35 min
Tmax	130 - 150 °C

Gel time at 20 °C in a 100 g cup with 2 ml Curox M 102: 20 - 30 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.

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Directions for use

Before using, the resin should be conditioned to a precisely defined temperature, depending on process. Temperatures > 20 °C are ideal for injection. Due to the thixotropic stabilisation of the resin, there is practically no settling out of the filler. Long stirring procedures should be avoided; the resin should be gently stirred for a maximum of 0.5 h before using. "Gentle stirring" is understood as stirring at low speed, just setting material at the edge of the container in motion. Only a minimal "whirlpool" effect should take place at the centre of the container. The use of 1 - 2 % of the injection additive 742-0018 is suitable for reducing viscosity to 400 - 600 mPas.

Note:

To achieve the best mechanical and fire protection properties, the moulded parts should be post-cured for at least 8 hours at + 80 °C.

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

Evaluation in orientational tests according to DIN 5510/part 2 - a 3 mm thick random fibre laminate with 30% by weight glass content was tested.

Flammability class:	S 4
Smoke development rating:	SR 2
Drop forming class:	ST 2

Further orientational test result: 3 mm laminate in vacuum injection with 39% by weight glass content:

NFP 92501:	M 2
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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 up to a temperature of 20 °C. Gel and curing times may change with increasing duration of storage.

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Former product name 700-0520 BÜFA®-Firestop S 520.

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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