

BÜFA-Firestop® S 520

Fire Protection Injection Resin

Prod. No. 700-0520

Product description BÜFA Firestop® S 520 is a pre-accelerated, thixotropic injection resin. It is also highly reactive with low viscosity and made from 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 components with fire protection properties in a RTM process.

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	800-1000	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)

20 - 30 °C	11 - 13 min
20 °C - Tmax	20 - 30 min
Tmax	120 - 150 °C

Gel time at 20 °C in a 100 g cup with 2 ml Butanox LPT 94: 50 - 70 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.

Directions for use Before the resin is processed, it should be conditioned at an exactly defined, process-dependent temperature. Temperatures > 20 °C are ideal for injection.

Because of its thixotropic stabilisation, the filler has little tendency to settle. Long stirring processes should be avoided; the resin should be

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gently stirred for max. 0.5 hours before using. "Gentle stirring" is understood as stirring at low speed, just setting the material on the side of the container in motion. Only a minimal "whirlpool" effect should take place at the centre of the container.

To reduce viscosity, 1-2% Injection Additive 795-0020 can be used which reduces viscosity to 400-600 mPas.

Note:

To achieve optimal mechanical and fire protection properties, the moulded components 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 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 class:	SR 2
Drop forming capacity:	ST 2

NFP 92501:	M 2
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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.

BÜFA Reaktionsharze GmbH & Co. KG
Hohe Looge 2-8
26180 Rastede

Germany

Phone +49 4402 975-0

Fax +49 4402 975-300

reaktionsharze@buefa.de



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www.buefa.de