

BÜFA®-Firestop S 820

Fire Protection Laminating Resin

Prod. No. 7160820

Product description BÜFA®-Firestop S 820 is a pre-accelerated, thixotropic, moderately reactive, low viscosity laminating resin made of unsaturated polyester resin on a DCPD base dissolved in styrene with halogen based additives. Its main flame retardant component is aluminium hydroxide.

Applications BÜFA®-Firestop S 820 is suitable for the production of moulded parts with fire protection properties and can be used in hand lay-up or spray lay-up processes.

| Specifications / technical data | Property | Test method | Value | Unit |
|---------------------------------|---|--------------|--------------|------|
| | Density at 20 °C | DIN 53 217/2 | approx. 1,50 | g/ml |
| | Solid content | EN ISO 1172 | 77,0 - 79,0 | % |
| | Flash point | DIN 53 213 | 31 | °C |
| | Viscosity at 23 °C Physica Z 2 250s-1 | TM 2013 | 370 - 430 | mPas |

Curing **Reactivity:**
BÜFA method in accordance with DIN 16 945 6.2.2.1
(100 g resin + 2.5 g Butanox M-50)

| | |
|--------------|-------------|
| 20 - 30 °C | 25 - 32 min |
| 20 °C - Tmax | 42 - 53 min |
| Tmax | 90 - 120 °C |

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 Due to the high 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 slow 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 best textile glass fibre mat for this purpose is an open, emulsion bound matt since these allow faster impregnation by the resin.

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- Note:** To achieve the best possible 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.
- Fire protection properties** Results in an orientation fire protection test: A 3 mm thick random fibre laminate with 30 % by weight glass was tested:
- BS 476 – part 7: Class 2
- 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.

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 Composite Systems GmbH & Co. KG
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

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