

BÜFA®-Firestop 2777-P-1

Fire Protection Resin

Prod. No. 7162777

Product description BÜFA®-Firestop 2777-P-1 is an unfilled, pre-accelerated, unsaturated polyester resin dissolved in styrene. The resin is halogenated, moderately reactive, thixotropic and also contains an LSE additive to reduce the emission of styrene.

Applications BÜFA®-Firestop 2777-P-1 was designed for the production of rescue boats. It has an approval according to GL. Because of its low viscosity, BÜFA®-Firestop 2777-P-1 has very good impregnation and wetting properties on glass fibres and can be used in various application processes such as hand lay-up and spray lay-up but is also suitable for application in injection processes.

Specifications / technical data	Property	Test method	Value	Unit
	Physika Z 2, Viscosity at 23 °C, 20 s-1	TM 2013	360 - 500	mPas
	Physika Z 2, Viscosity at 23 °C, 250 s-1	TM 2013	265 - 335	mPas
	Density at 23 °C	TM 2160	1,12 - 1,14	kg/m ³
	Appearance	TM 2265	slightly cloudy	
	Flash point	TM 2800	33	°C

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

25 - 35 °C	19 - 26 min
25 °C - Tmax	28 - 38 min
Tmax	105 - 135 °C

(100 g resin + 1 % Butanox M-50)

25 - 35 °C	50 min
25 °C - Tmax	65 min
Tmax	100 °C

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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.

Mechanical Properties

<u>Property*</u>	<u>Test method</u>	<u>Value</u>
Flexural strength	ISO 178	173 MPa
Flexural-E-Modulus	ISO 178	4 900 MPa
Impact res. - unnotched sp.	ISO 179	90 Jm
Tensile strength	ISO 3268	110 MPa
Tensile-E-Modulus	ISO 3268	5 500 MPa
Elongation at break	ISO 3268	2,0 %

* Measured in a standard laboratory atmosphere on specimens made of a laminate with 3 layers of emulsion bound glass fibre mat 450 g/m² (resin-glass ratio 2.25 : 1) that was conditioned for 3 hours at 80 °C after curing (storage) for 24 hours at room temperature. Curing formulation: 100 g resin + 2 % Butanox M 50.

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Properties of the cured base resin	Property *	Test method	Value
	Flexural strength	ISO 178	60 MPa
	Flexural-E-Modulus	ISO 178	1 800 MPa
	Impact res. - unnotched sp.	ISO 179	4,0 kJ/m ²
	Tensile strength	ISO 527-2	25 MPa
	Tensile-E-Modulus	ISO 527-2	2 300 MPa
	Elongation at break	ISO 527-2	1,15 %
	Heat deflection temperature (HDT)	ISO 75-A	50 °C

* Measured in a standard laboratory atmosphere on cast test specimens made of pure resin conditioned for 24 hours at +50 °C after curing (storage) for 16 hours at room temperature. Curing formulation: 100 g resin + 2.0 % Butanox M 50.

Directions for use

Before using, condition the resin to at least 15 °C and stir thoroughly. If bonding work is to be carried out, it is recommended to sand the surface to be bonded and clean thoroughly afterward. It is the responsibility of the user to make sure that all of these working steps have been carried out properly.

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.

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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.

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