Technical Data Sheet

Gelcoat Plus

BÜFA®- INJECTION-RESIN-LEO-R - 6500

FR-VE Fire Protection Injection Resin Prod. No. 716-6500

Product description

BÜFA®-Injection-Resin-LEO-R - 6500 is a moderately reactive, vinyl ester resin on a bisphenol A epoxide base dissolved in styrene. This product is a component in the **LEO Rail System**. BÜFA®-Injection-Resin-LEO-R - 6500 is halogen-free, pre-accelerated and is especially suitable for use in injection processes because of its low viscosity formulation.

Applications

BÜFA®-Injection-Resin-LEO-R - 6500 is used for the production of moulded parts that are of especially high mechanical quality on which high requirements are also placed on chemical resistance. When combined with BÜFA®-Injection-Resin-LEO-R - 6500 or - 6501 and Saertex Reinforcement LEO-R, the system achieves outstanding fire protection properties. Laminates based on BÜFA®-Injection-Resin-LEO-R - 6500 not only have excellent long-term heat resistance but are also highly resistant to dynamic loads.

Specifications / technical data

Property	Test method	Value	Unit
Density at 20 °C	DIN 53 217/2	1,04	g/ml
Viscosity at 20 °C Brookfield RV/DV-II Spl 3. rpm 20.	ISO 2555	240-340	mPas
Monomer content		41-44	%
Flash point	DIN 53 213	32	°C

Curing

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

25 - 35 °C	60 - 70 min
25 °C - Tmax	86 - 95 min
Tmax	142 - 152 °C

Gel time at 20 °C in a 100 g cup with 2 g Butanox M-50: 60 - 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.

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Directions for use

Before use the resin should be conditioned to a precisely defined temperature, depending on process. Temperatures > 20 °C are ideal for injection. 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.

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.

Attention! BÜFA®-Injection-Resin-LEO-R - 6500 is an experimental product the composition and specifications of which may change at any time without prior notice. If you have any questions in this conjunction, please get in touch with our Technical Service Department.

Fire protection properties

Results of orientation tests:

Construction of test laminate:
1000 µm BÜFA®-Protection-Layer-LEO-R - 6500
2 layers SAERTEX Reinforcement LEO-R Bidiagonal Glass Fabric S32EX010-01211-01270-250000 [50 % by volume]
BÜFA®-Injection-Resin-LEO-R - 6500

NFF 16-101: M1 / F1
TS EN 45545: HL 3
UNE 23721: M1 / F1
DIN 5510: S4 / ST2 / SR2 + Tox. according to ISO 5659
NFPA 130: passed
BS 476: Class 1

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.

Former product name

FRCS-X5 Injection Resin

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Prod. No. 716-6500

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 Gelcoat Plus GmbH & Co. KG
Hohe Looge 2-8
26180 Rastede
GERMANY
Phone +49 4402 975-0
Fax +49 4402 975-300
gelcoatplus@buefa.de
www.buefa.de
www.buefagelcoatplus.com

A company of BÜFA and DSM Composite Resins