

BÜFA® PROTECTION LAYER-LEO-R - 6501

FR Protective Layer, spraying quality

Prod. No. 714-6501

Product description

BÜFA® PROTECTION LAYER-LEO-R - 6501 is an unaccelerated, pigmented, protective layer in a spraying consistence. It is halogen-free and based on a VE resin dissolved in styrene. Thanks to a precisely coordinated combination of special flame retarding additives, outstanding fire protection properties are achieved with this protective layer. BÜFA® PROTECTION LAYER-LEO-R - 6501 is a protective layer that reliably protects the VE-FR resin behind the laminates from flames. This product is a component in the **LEO Rail System**.

We recommend using BÜFA® PROTECTION LAYER-LEO-R - 6501 only in a system with BÜFA® Injection Resin LEO- 6500 and Saertex Reinforcement LEO-R to best utilise the synergies of products that are coordinated to each other.

Applications

BÜFA® PROTECTION LAYER-LEO-R - 6501 was especially developed for use in rail vehicle construction. The components are ideally produced in an injection process and have not only excellent fire protection properties but also very high mechanical values in the static as well as dynamic area.

Specifications / technical data

Property	Test method	Value	Unit
Density at 20 °C	DIN 53 217/2	1,40	g/ml
Viscosity at 20°C Brookfield RV/DV-II Spl 5. rpm 5.	ISO 2555	24000 - 34000	mPas
Monomer content		16-19	%
Flash point	DIN 53 213	32	°C

Curing

Reactivity:

BÜFA method in accordance with DIN 16 945 6.2.2.1

(100 g BÜFA® PROTECTION LAYER-LEO-R - 6501 + 1 g Accelerator 0399 (742-0399)
+ 2.0 ml Butanox M 50)

20 - 30 °C	8,0 - 14,0 min
20 °C - Tmax	30 - 45 min
Tmax	80 - 105 °C

BÜFA® PROTECTION LAYER-LEO-R - 6501

FR Protective Layer, spraying quality

Prod. No. 714-6501

**Gel time at 20 °C in a 100 g cup
with 1 g Accelerator 0399 (742-0399)
and 2.0 ml Butanox M 50:**

8,0 - 14,0 min

The quantity of accelerator added should not be less than 0.7 g per 100 g material.

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.

Colouring

No other tinted versions are available.

Directions for use

The release agent system Chemlease 41-90 has been tested and successfully used with BÜFA® PROTECTION LAYER-LEO-R - 6501. Before using other release agents, they should be tested for suitability under practical conditions. Stir BÜFA® PROTECTION LAYER-LEO-R - 6501 gently before using.

The thickness of the wet film should range between 900 - 1200 µm and may not be less than 900 µm. After approx. 60 minutes, laminating can be carried out with a sound bond. To ensure a sound bond, laminating work must take place after 4 hours at the latest. If circumstances permit, we recommend post-curing the moulded part for 6 hours at approx. + 80 ° C to achieve optimal final properties.

We generally recommend a suitable protective varnish, particularly when the parts are used outdoors. If you have any questions concerning this, get in touch with our Technical Service Department.

Note:

Attention!

BÜFA® PROTECTION LAYER-LEO-R - 6501 is an experimental product the composition and specifications of which may change at any time without prior notice.

If you have any questions concerning this, get in touch with our Technical Service Department.

BÜFA® PROTECTION LAYER-LEO-R - 6501

FR Protective Layer, spraying quality

Prod. No. 714-6501

Fire protection properties

Results of orientation tests:

Construction of test laminate:

1000 µm BÜFA® Protection Layer LEO-R 6501

2 layers SAERTEX Reinforcement LEO-R Bidiagonal Glass Fabric

S32EX010-01211-01270-250000 [50 % by volume]

BÜFA® Injection Resin LEO-R 6501

DIN 5510: S4 / ST2 / SR2 + Tox. according to ISO 5659

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 at a temperature between 5 and 20 °C. Avoid frost. Higher temperatures reduce shelf-life. 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 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