

## FOLCO® - LIT D4 W91

### General information

Type of product	<b>FOLCO® - LIT D4 W91 is a 1- component ready to use water based adhesive with highly water and heat resistance.</b> Unfilled PVAc-based adhesive with cross linkable groups.
Field of application	For parts which are exposed to the weather, however, with appropriate surface protection. Due to its high heat resistance particularly suitable e.g. for segmented profiles, window scantlings and window edges.  For the bonding of wood and wooden materials, bonding of joints in boards and block gluing of soft wood, hard wood (after preliminary tests) and surface bonding.
Properties	<b>FOLCO® - LIT D4 W91</b> is a highly water resistant wood adhesive which corresponds to the durability class D4 according to DIN EN 204. <b>FOLCO® - LIT D4 W91</b> achieves a high final strength with only short press times. Good heat resistance: $\geq 7 \text{ N/mm}^2$ according to DIN EN 14257 (WATT 91). <b>FOLCO® - LIT D4 W91</b> achieves a high final strength with short pressing time, especially with additional heat.

### Characteristics

Viscosity (on the day of manufacture)	approx. 6.000	m-Pas	(Brookfield RVT, 20 °C, Sp. 6, 20 Upm.)
pH-value	approx. 3		

### Further properties

Min. film forming temperature (MFFT)	+ 8	°C
Density	1,08	g/cm <sup>3</sup>
Open time at 150 g/m <sup>2</sup>	max. 8 - 12	min.

### Instructions for use

Modification Hardener	<b>FOLCO® - LIT D4 W91 is a 1- component ready to use adhesive.</b> It is not necessary to add any hardener (no pot life has to be considered!).
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### Instructions for use

Work pieces should be properly planed and free of dust and grease. Tolerances cause prolonged setting times and less mechanical strength.

#### Use

Among others, the temperature, humidity and absorption of the materials, the coating weight and the tension within the material have different influence on the open time, the setting time and the pressing time. Heat accelerates the setting procedure and shortens the open time.

For good results we recommend the following working conditions:

Room, material and adhesive temperature	18 – 22	°C
Wood moisture (should correlate with the later wood moisture): Interior use: approx. Exterior use: approx.	8 – 10 11 - 15	% %
Relative air humidity	60 – 70	%
Coating weight: depending on application	80 ... 150	g/m <sup>2</sup>
Press pressure for tensionless work pieces	0,1 – 1	N/mm <sup>2</sup>
Minimum pressing time: Lamination of window scantlings Assembly	20 - 25 8 – 15	min. min.

**FOLCO® - LIT D4 W91** is applied with the common application tools on one or both sides. The coating weight depends on the absorption and the surface conditions of the materials to be bonded. Do not apply below +12°C (room and material temperature).

Within the open time the parts are to be joined and pressed.

The compatibility with other adhesives has to be checked before mixing.

The final water resistance is built up after approx. 7 days.

#### Wood discoloration

Usually **FOLCO-LIT D4 W91** does not lead to wood discoloration. Because of the varied nature of wood components unpredictable discoloration may in some cases appear. E.g. iron together with the tannin in wood may

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### Instructions for use

#### Cleaning

cause discoloration. We recommend to do your own trials.

Fresh and not yet dried adhesive can be removed with water immediately after use.

### Additional advices

#### Safety advice

An EC health and safety data sheet for **FOLCO® - LIT D4 W91** is available and has to be considered before handling, storage or use of the product.

#### Storage

In original containers under suitable conditions **FOLCO® - LIT D4 W91** can be stored for min. 9 months. The material should be stored cool and free from frost. A storage temperature of above 25° C minimizes considerably the storability of the product.

The characteristics which are necessary for the products' allowance are checked by our quality control department during production and before delivery. Dependent on the storage temperature and the time the values can change and fall below or exceed the indicated limits. The viscosity of **FOLCO® - LIT D4 W91** may increase after a longer storage time. In this case we recommend to stir the product before use. However, this does not influence the adhesion properties of the product.

**Last change**      **28.01.2011**

This data sheet replaces all former technical information.

Instructions on the application methods of our products are based on comprehensive development work and years of experience. They are provided to the best of our knowledge. The most diversified requirements to the object under extremely varying conditions require a suitability test by the processor for the corresponding application. We reserve the right to introduce modifications for the purpose of technical progress or an improvement of our products. The agreed-upon characteristics of the product are finally detailed in this technical data sheet. All additional agreements concerning the characteristics must be made in writing. This applies in particular to products' suitability for any specific application.