

Technical Data Sheet

Stellar HSL- WB2100



Water-based, flexible heat-seal lacquer developed for food packaging. The lacquer can be directly applied in a single step onto ALU, is rapidly activated from 120°C, and is suitable for ALU/ALU packaging. HSL-WB2100 can be safely used in packaging for biscuits, cakes, pastries, cheese and other solid dairy products, providing complete seal integrity. It can also be used in aluminum lamination applications.

Product Description

Stellar HSL-WB2100 is a water-based heat-seal lacquer dispersion, based on special thermoplastic copolymers and additives. The product is a heat sealable adhesive that can be directly applied in a single step onto ALU/ALU foil surfaces and can be used for multiple purposes. The product is activated at low temperatures, and the appropriate sealing temperature should be determined according to production conditions.

Appearance:	Opaq Liquid
Active substance:	35-45 %
Specific gravity:	1,04 g/ml 20°C
Viscosity:	27 sec. (DIN 53211, 4mm)
Solvents:	Distilled Water, osmosis water

Application Information

Sealing on materials:	ALU
Application methods:	Rotogravure, roller coating, semi-flexo
Recommended coating weight:	2-6 g/m ² solids
Recommended viscosity:	15-20 seconds (DIN 53211, 4 mm)
Recommended diluents:	Distilled water, osmosis water

Recommended drying temperature: In general, temperatures between 130-160°C for 5-10 seconds are sufficient. The relation between machine speed and temperature, the applied lacquer weight, drying zone temperature-time profile, evaporation concentration, airflow rate, and humidity must be strictly observed. Therefore, we recommend testing and measuring the residual solvent content.

Adhesion and Seal Strength Values

AL / AL	N/15 mm: 12	(Brugger-HSG C 190°C, 1 sec, 460N, tolerance±2)*
AL / APET	N/15 mm: 8	(Brugger-HSG C 190°C, 1 sec, 460N, tolerance ±2)
AL / PS	N/15 mm: 8	(Brugger-HSG C 190°C, 1 sec, 460N, tolerance±2)*

The values indicated above depend on the sealing temperature, and the values will decrease with lower temperatures
1typical sealing temperature between 140 -190°C

Hygienic instructions and Compliance

Stellar HSL-WB2100 is a water-based dispersion whose hygienic properties comply with **Regulation (EC) No. 1935/2004** of the European Parliament and of the Council on materials and articles intended to come into contact with food, as well as with Commission **Regulation (EU) No. 10/2011 on plastic materials and articles intended for food contact**.

Safety instructions

Stellar HSL-WB2100 is water-based and non-flammable. Prolonged skin contact should be avoided. For detailed information, please refer to the product safety data sheets and declarations of conformity

Disposal

The product must be disposed of in accordance with the country's legal waste regulations. Appropriate waste management: Recycling/recovery should be applied in accordance with **Annex I, Article 13 of the EU Waste Framework Directive (2008/98/EC)**. Refer to the product safety data sheet for further information.

Storage and consumption

Store in a cool place, protected from frost. Keep away from direct sunlight and temperatures above 30°C. Keep out of reach of children. The product can be stored in its original, sealed packaging for up to 12 months. Storage must comply with official regulations.

Delivery package

Metall Hobbocks:	30 Kg
HDPE Drums:	120 Kg
IBC Containers:	1000 Kg



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