



HERBERTS LG 59A / CAT B

TWO COMPONENT POLYURETHANE ADHESIVE

KEY BENEFITS

- For all film/film and film/aluminum laminates
- high heat and sterilisation resistance
- Suitable for printed, unprinted or metallized films

DESCRIPTION

Herberts-LG 59A with **CAT B** is a solvent based two component polyurethane-cross-linking adhesive system.

RANGE OF APPLICATION

Herberts-LG 59A / CAT B is a **Medium to High Performance** adhesive system for all film/film and film/aluminium laminates and excels by high heat and sterilisation resistance in aluminium foil complexes. In general, the surface can be printed, unprinted or metallized.

This adhesive system is also suitable for the production of laminates of paper and cardboard against plastic films and aluminium.

SUITABILITY

Before starting production the suitability of the used printing inks, film qualities, film additives, coatings etc. has to be controlled individually. In case of any change of quality of these printing inks, films etc. new tests concerning the suitability are necessary. The desired properties of the complex have to be verified by performance tests prior to production.

PHYSICAL PROPERTIES

PROPERTIES	LG 59A	CAT B
Component	NCO	OH
Solid content [%]	60+/-2	100
Solvent	Ethyl Acetate	-
Viscosity Brookfield at 25°C [mPa.s]	400-900	38-42
Mixing ratio [parts by weight]	100	2
Density [g/cm³]	1.08	1.12

DILUTION

Dilution may be done with PU grades (< 0,1 % H₂O-content) of ethyl acetate, acetone, MEK or a mixture of these solvents. The adhesive system should be processed at a solids content of approx. 30 %.

DILUTIONS

PROPERTIES		DILUTION 1	DILUTION 2
Solid content	[%]	40	30
LG 59A	[kg]	100	100
CAT B	[kg]	2	2
Ethyl acetate	[kg]	53	105
Viscosity Ford-cup 4 at 25°C	[sec.]	22	17

POT LIFE

4 hours at ambient temperature if diluted (solids content of the mixture 25 %). Humidity will negatively influence the pot life.

APPLICATION

On all dry laminating machines, with smooth or rotogravure rollers.

APPLICATION WEIGHT

At least 2 g/m² dry. Optimum adhesion is obtained with an application weight of approx. 3 g/m². In case of special stress of laminates (i.e. sterilisation, filling goods resistance etc.) as well as in cases of reverse printed films the coating weight has to be correspondingly increased. All laminate structures which have to be sterilised, ≥ 4 g/m².

DRYING

Drying conditions must be adjusted to substrate, application weight and line speed in order to avoid the retention of solvents. The dried and fully cured adhesive film will be transparent and neutral in odour.

CURING TIME

Rewinding, slitting as well as the production of triplex-laminates is possible already after a few hours. Maximum cure will be reached in 7 to 10 days depending on temperature and humidity conditions.

STORAGE

9 months for **LG 59A** and 12 months for **CAT B** when adhesive and hardener are stored in originally closed containers at temperatures between 10 and 35°C. The remainder in partly emptied barrels must be used as soon as possible.

PRECAUTIONS

During processing, solvent vapours must be exhausted by an adequate ventilation. When processing these resins precautions for the use of isocyanates have to be observed.

The corresponding EEC safety data sheets are part of this technical information.

FOOD LEGISLATION

Herberts-LG 59A/CAT B is in compliance with the positive lists of the following, internationally accepted guidelines for the production of articles intended to come into indirect contact with foodstuff :

- recommendations of the German Health Dept. (**BfR**), chapter XXVIII,
- the **EEC**-directive 2002/72 and amendments (including 90/128/EC and amendments), the Council of Europe's resolution **AP (96) 5** and amendment,
- CFR, title 21, § 175.105 of the **FDA**, Washington D.C., respectively.

Herberts-LG 59A/CAT B is BADGE-free.

REMARK

Prior tests are advised (or recommended) for any industrial use. Moreover, the recommendations for implementation should be followed. It is recommended to follow our precautionary measures listed in the specification sheets.

The use of the adhesive has to be discussed with our technical support team. Please refer to our general technical brochure "Bostik Laminating Adhesives" for additional information.

BOSTIK CAN ALSO OFFER

- 1K-LF laminating adhesives
- 2K-LF laminating adhesives (cold and warm system)
- 1K-LH laminating adhesives
- 2K-LH laminating adhesives, for food and industrial applications
- Gloss lacquers of the series GL 3000
- Primers; e.g. for PVDC coating, for printing ink applications, as extrusion primers
- Heat seal lacquers, sealable against PVC, PS and PP
- Solvent borne colour concentrates for laminating adhesives
- Heat seal coatings based on Vitel® resins
- Cold seal Adhesives

Please contact us directly or our local representation for further assistance.

1K = one component
2K = two components

LF = solvent free
LH = solvent based

BOSTIK HOTLINE

Smart help (080) 27833520

