

# EF2872A/EF2872B Laminating Polyurethane Adhesive

(good performance in laminating paper/film or paper/alu)

### Description

EF2872A/EF2872B is an ethyl acetate based two-component polyurethane adhesive with wider applicability and higher performance. It has high initial adhesion and high peel strength for laminates. In lamination of film/film, it can withstand boiling and sterilization at 100  $\,^{\circ}$ C for 30min, and can be used to make flexible packaging that need to be evacuated and boiled for sterilization.

### Declaration

OCHEM EF2872A/2872B 2-component ethyl acetate base polyurethane adhesive are in compliance

with the positive lists of the following, internationally accepted guidelines for the production of articles intended to come into indirect contact with food stuff.

- EU RoHS directive (EU) 2015/863 amending Annex II to directive 2011/65/EU
- CFR, title 21, § 175.105 of the FDA, Washington D.C., respectively
- Regulation (EC) No 1907/2006 concerning the REACH

### **Technical Properties**

These properties are typical but do not constitute specifications.

ltore	EF2872A	EF2872B	
ltem	(OH component)	(NCO component)	
Туре	Main agent	Hardener	
Ingredient	Polyester polyol agent	Isocyanate-terminated Polymer	
Appearance	Light yellow transparent liquid	Light yellow transparent liquid	
Solid Content(%)	72±2	75±2	
Viscosity (mPa.s20°C)	5000±1000	2500±1250	
Solvent	Ethyl acetate	Ethyl acetate	
Mix Proportion	5	1	
Shelf life	360days	300days	

### **Typical Features:**

- Wider adaptability and higher performance than normal PU adhesive
- High initial bonding strength, Very good peeling strength of the laminated film
- It complied with US FDA 21CFR175.105.

### **Recommended Operating Conditions**

•	Application solids		20-35% (Recommend 30%)	
•	Pot Life	Static	8 hours approximately	

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### HUZHOU OCHEM CHEMICAL CO., LTD

No.688 Xifeng Road, Huzhou, Zhejiang, China Tel: +86 572 2750906 Fax: +86 572 2678688

•	Dynamic	24 hours approximately	
•	Dry Coating Weight	2.0-4.0 gsm depending on structure	_
•	Drying Section Temperature	55-65℃ 65-75℃ 75-85℃(three section)	
٠	Laminating Temperature	50-80°C	
٠	<u>Cure Time</u>	24-48 hours (45-55℃)	
•	Cleaning Solvent	Ethyl Acetate	

### Mix Ratio By Weight

Working	EF2872A KGS	EF2872B KGS	Ethyl Acetate	Viscosity(Zahn
concentration %			KGS	cup#3/25°C)(s)
35	5	1	6.4	17.1
30	5	1	8.5	15.5
25	5	1	11.4	14.0
20	5	1	15.8	12.4
15	5	1	23	11.0

Solvent is ethyl acetate, acetone, MEK, the water content should be less than 0.03%, the alcohol content should be less than 0.02%, Ethyl acetate is recommended.

### Package

Pack in steel drum normally. Main agent is 20kg/drum. Hardener is 4kg/drum.

### Safety & Storage

Store in cool, dry, well-ventilated area away from heat and ignition sources . Keep container tightly closed. Refer to MSDS for more safety information

### Precautions

1. The LDPE and CPP films must be corona-treated with a surface tension greater than 38 mN/m. The PA film must be double-corona treated as an intermediate layer. The surface tension must not be less than 52 mN/m; the surface tension of the PET film must not be Less than 52 mN/m.

2. The temperature and humidity of the environment have a great influence on the time for storing the configured adhesive. It is recommended to arrange the adhesive in small quantities for a few times in high temperature and high humidity weather to avoid waste.

3. During the laminating processing, care must be taken to check and control the viscosity.

4. Residual adhesive: The remaining adhesive cannot be used in principle. If the amount of residual liquid is excessive, it shall be sealed and stored in cool place after dilution, which could be used as diluent for operation in next day, and a small amount shall be little by little added to the newly prepared adhesive solution. It cannot be used any more, if it appears cloudy, translucent or thickened.

5. The concentration and additives in the film have an influence on the bonding strength of the laminated

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film and must be selected before use.

- 6. Do not mix this product with other adhesives. If necessary, please consult our technical department.
- 7. Pay attention to fire prevention and static elimination.

#### Important notice

These documents we provided are made on the basis of our recent knowledge and experience, all these terms we mentioned are only suitable in normal condition and could be used as references. Please test and affirm before formal production or contact with our technician to some especial structures of films and stuffs packed, we do not take on any legal duty for these documents.

