

EB2060A/EB2060B Solvent Base Polyurethane Adhesive

Description

EB2060A/EB2060B is an ester based two-component aromatic polyurethane adhesive specializing for most lamination application, widely used in laminating of various treated film like BOPP、PET、VMPET、VMCPP、VMOPP、NY、PE、CPP、AL、etc .The adhesive is specially designed for high speed economical lamination with high concentration mixed ratio. Due to the low viscosity of adhesive itself, high concentration of mix ratio can be used in the actual production to reduce the amount of solvent, save solvent cost and improve production efficiency to achieve the high efficiency and economy of laminated packaging.

It could be not only in foil/film and met-film/film 100 °C /30min boiling resistant packaging, but also in film/film 121°C/40min retort resistant packaging

Declaration

OCHEM EB2060A/EB2060B two-component ester-solvent 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, § 177.1395 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.

Item	EB2060A (OH component)	EB2060B (NCO component)
Type	Main agent	Hardener
Ingredient	Polyester polyol agent	Isocyanate-terminated Polymer
Appearance	Light yellow transparent liquid	Light yellow transparent liquid
Solid Content(%)	60±2	20±2
Viscosity (mPa.s20°C)	2000±1000	2500±1250
Solvent	Ethyl acetate	Ethyl acetate
Mix Proportion	5	1
Shelf life	360days	360days

Typical features:

- It is recommended for foil/film and met-film/film 100°C/30min boiling resistant packaging
- It is recommended for film/film 121°C/40min retort resistant packaging
- High machine speed available
- Higher concentration and less solvent demanded
- Excellent leveling property
- Low residue of solvent

Recommended Operating Conditions

- ◆ Application Method Anilox roller or flexo roller
- ◆ Application Cylinder Anilox roller above 180 line
- ◆ Application solids 35-50% (Recommend 40%~45%)
- ◆ Pot Life Static 8 hours approximately
- ◆ Pot Life Dynamic 24 hours approximately
- ◆ Dry Coating Weight 2.0-3.5 gsm;
- ◆ Drying Section Temperature 50-60°C 60-70°C 70~80°C(three section)
- ◆ Laminating Temperature 50-80°C
- ◆ Cure Time 45-55°C 24 hours for general purpose, 36hours for boiling resistant packaging, 48hours for retort resistant packaging.
- ◆ Cleaning Solvent Ethyl Acetate

Mix Ratio By Weight

Solid content(%)	Mix Ratio		Operating Mix Ratio In Drums Weight		
	EB2060A	EB2060B	EB2060A	EB2060B	Ethyl Acetate(kgs)
50	5	1	20	4	4.8
45	5	1	20	4	8
40	5	1	20	4	12
35	5	1	20	4	17

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 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.

