

EB4355A/EB4355B ethyl acetate solvent based PVDC coating primer

Description

EB4355A/EB4355B is an two-component aromatic polyurethane PVDC primer, specializing for prime coating PVDC latex on substrate films of BOPP, BOPET, BOPA for food packaging which demands excellent barrier rate with high transparent rate; also for PVDC emulsion on substrate films of PVC, VMPVC and aluminum composite panel for pharmaceutical packaging. The adhesive has the good performance on high initial viscosity, high fluidity, good transparency, soft coating, anti-aging, anti-medium, anti-freezing, etc. It also could withstand 100°C boiling for 30 minuets.

Declaration

OCHEM EB4355A/EB4355B 2-component Ester based 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.

Item	EB4355A (OH component)	EB4355B (NCO component)
Type	Main agent	Hardener
Ingredient	Polyester polyol modification	Isocyanate-terminated Polymer
Appearance	Light yellow transparent liquid	Light yellow transparent liquid
Solid Content(%)	55±2	75±2
Viscosity (mPa.s)	1100±400 (25°C)	2500±1250 (20°C)
Solvent	Ethyl acetate	Ethyl acetate
Mix Proportion	5	1
Shelf life	360days	360days

Typical Features:

- EB4355A/B is a PVDC coating primer.
- Specializing for prime coating PVDC emulsion on substrate films of BOPP, BOPET, BOPA for food packaging which demands excellent barrier rate with high transparent rate.
- Specializing for PVDC emulsion on substrate films of PVC, VMPVC and aluminum composite panel for pharmaceutical packaging.
- With excellent anti-medium, anti-auxiliaries performance
- High initial and final bonding strength, good flow property, good coating property to the film, the laminated film have good resistance for film-aging, freezing etc

Recommended Operating Conditions

- ◆ Application Method Direct gravure or smooth roller coating
- ◆ Application solids 15~20%

◆ Pot Life	Static	8 hours approximately
◆	Dynamic	24 hours approximately
◆ Dry Coating Weight		0.3-0.5 Gsm depending on structure
◆ Cure Time		over 48 hours (45-55°C)
◆ Cleaning Solvent		Ethyl Acetate

Mixing ratio: EB4355A: EB4355B 5:1.

Dilution: First add ethyl acetate to the main agent, stir well, and then add a curing agent. The curing agent must be decanted, or a small amount of ethyl acetate should be set aside, and then stir well. .

Coating method: It can be applied to the coating of any smooth roller and anilox roller.

Working concentration: Generally recommended concentration is 10-25%.

Dryness: It must be noted that there must be sufficient air volume, wind speed and temperature. Temperature control is selected between 50-60°C, 60-70°C and 70-80°C from the inlet to the outlet.

Laminating roller: The pressure and temperature in laminating roller should be increased as much as possible without damaging the film. The temperature is generally controlled at 50-80°C. Films that are susceptible to temperature :50-60°C, and other films : 70-80°C.

Working concentration %	EB4355A KGS	EB4355B KGS	Ethyl Acetate KGS
25	5	1	8
20	5	1	11.5
15	5	1	17.3
10	5	1	29

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.

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.

Package

Pack in steel drum normally.



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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

