

Paper lamination adhesive for creasing, perforating, folding machines

UZIN E44

Water dispersion adhesive for powerful paper/paper and/or carton

Applications:

Industrial use adhesive, plasticizer-free, consisting of vinyl acetate monomers dispersion for paper/paper/carton lamination. The application could be either by spraying or by grommet. Suitable for creasing, perforating, folding and gluing machines and for various other simple packaging bonding.

Suitable for / on:

- ▶ Several types of ink or varnish printed paper and its derivatives
- ▶ All types of cartons and their derivatives

Product properties / advantages:

Water dispersion adhesive of vinyl acetate, without plasticizers, with high content to active solids. Dries fast and develops high strength at early drying stages. Suitable for creasing, perforating, folding, and gluing machines applied by spraying and/or grommet.

- ▶ Fast adhesion
- ▶ Easy spread/application
- ▶ Fast tack
- ▶ High shear strength

Technical Data:

Packaging:	PE container
Sizing:	12kg
Hazard & FDA approval:	None Yes (21 CFR (US FDA) & German BfR)
Active solids:	58 - 62 % (DIN EN ISO 3251)
Color:	Milky/Opaque
Density:	approx. 1,1 g/cm ³ (DIN EN ISO 2811-3)
Minimum film forming Temperature:	approx. 14 °C (DIN ISO 2115)
Consumption:	Depends on application method
Viscosity:	29000-41000 mPa.s (DIN EN ISO 2555)
pH:	4,0 - 5,5 (DIN/ISO 976)
Storage:	Min. 6 months at cold and dry place ~20°C
Cleaning:	Wet film: cold water Dry film: hot water and/or detergent Stains/Pillages: UZIN OFFSET 395

* At 20 °C and R.H.65%.

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Substrate preparation:

The bonding surfaces must be dry, clean, and free from dust and other substances that could impair adhesion. Refer to safety data sheets of the product and study carefully the compatibility of each component with UZIN Hellas various products.

Application:

1. Place the container of adhesive indoors and let it be acclimatized, for 1-2 hours.
2. Ambient temperature and humidity must be within permissible limits. Ideal temperature conditions of application ranging from 18°C to 25°C. Do not apply adhesive at temperatures below 0°C and relative humidity greater than 60%.
3. Stir well the adhesive prior to application to homogenize well.
4. Manual application: Apply the adhesive evenly on the surfaces to be bonded with a brush or roller.
5. Mechanical spraying /grommet application: Keep always clean the feeder bowl.
6. Any dilution of the adhesive results in physical changes of the adhesion behavior: drying time, final adhesion strength, viscosity etc. Even though in case of dilution: use clean water to a maximum percentage of 10% w/w. Always use a different clean container for the dilution and never use the initial adhesive container. Caution! Water contains Dilution water contains microorganisms, thus in a long stay in the container they are incubated and affecting biologically the adhesive, resulting to mold, or other unpleasant odors.
7. Always close tightly lids of the containers to prevent moisture loss and infections.
8. Clean tools and residues while still fresh. After hardening, residues could be removed by special solvent UZIN OFFSET 395.

Consumption:

Consumption estimation
80-120 gr/m ² Depending on each substrate absorption

Important Notes:

- ▶ Shelf life minimum 6 months when stored in a cool dry place in original packaging. Protect from frost and heat. Opened containers must be used quickly.
- ▶ Always carry out preliminary tests with all materials together, due to seldom discoloration phenomena of adhesion application onto unstable ink/varnish substrates.

Protection of the workplace and the environment:

Solvent-free. The use of skin protection lotion is always recommended. Store out of reach from children. In the event of contact with the eyes or skin, rinse thoroughly and immediately with water. Information for persons with allergies is available at +30 210 7793777 (Greece).

Disposal:

Collect product residues wherever possible and reuse. Do not allow the sewer system, bodies of water or the soil to enter. Plastic containers emptied or scraped clean and no longer dripping from any residues can be recycled. Containers with liquid residues as well as collected liquid product residues are special waste. Containers with cured residues are construction / domestic waste.