TECHNICAL DATA SHEET

Adhesive for paper lamination

UZIN E49

Water dispersion adhesive for paper/carton lamination with paper

Applications:

Industrial use adhesive for bonding paper or its derivatives with paper/carton in corrugated carton packaging manufacturing applications. Suitable for carton boxes construction at the closing/side seams for folder-gluer machines.

Especially suitable for boxes intended to come in indirect contact with food.

Suitable for / on:

- All types of paper and its derivatives with or without ink/varnish printing
- All types of carton and its derivatives

Product properties / advantages:

Water dispersion adhesive, mixture of aqueous dispersion of acrylic resin polymers, with high content to active solids. Dries fast and develops high strength at early drying stages. Suitable for folder-gluer machines with low to high speed operation that apply adhesive by roller/wheel to corrugated boxes for the closing and side seams phasing.

- Economic
- Spreads easy
- Dries fast
- High shear strength

Technical Data:

Packaging:	PE container, tank
Sizing:	30kg and 1000kg
Hazard:	-
Active solids:	36±0.5%
Color:	Milky/Transparent
Specific Gravity:	1,06kg/l
Application Temperature:	min 15°C (ASTM 2354)
Consumption:	Depends on application method
Viscosity:	1.950 - 2.750 mPas
pH:	6.0 - 6.5
FDA approval:	-
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.
Study carefully technical data and safety data sheets of UZIN Hellas products.

Application:

1. Place the container of adhesive indoor and let it be acclimatized, for 1-2 hours.
2. Ambient temperature and humidity must be in permissible limits. Ideal temperature conditions of application ranging by 18°C to 25°C. Do not apply adhesive at temperatures below 5°C and relative humidity greater than 60%.
3. Stir well the adhesive prior to application in order to homogenize well.
4. Keep always clean the feeder bowl.
5. *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 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.
6. Always close tightly lids of the containers in order to prevent of moisture loss and infections.
7. Clean tools and residues while still fresh. After hardening, residues could be removed by special solvent UZIN OFFSET 395.

Consumption:

Consumption estimation
60-90 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 to enter the sewer system, bodies of water or the soil. 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.