TECHNICAL DATA SHEET

Adhesive for paper with treated PP or PE foil

UZIN PE 465

Water dispersion adhesive for paper/carton with untreated PP or PE foil

Applications:

Industrial use cold adhesive for bonding paper, carton or its derivatives with electrically treated PP or PE foils intended in flexible laminating packaging applications for various uses such as graphic arts, boxes, food packaging, etc.

Suitable for / on:

- Several types of ink or varnish printed paper and its derivatives
- All types of cartons and their derivatives
- PP or PE foil electrically treated (corona) or non-treated

Product properties / advantages:

Water-dispersion adhesive, mixture of acrylic copolymer resins, applied by cold use, non-ionic, with high content of active solids. Could be applied by a spreader roller onto the flexible film's surface and immediately after it could be adhered to the top of paper's surface and finally both materials are pressed together by a metal roller. It dries quickly and develops great resistance to the early drying stages. Suitable for machines with a medium to high-speed operation.

- Good thermal & moisture resistance
- Gloss texture
- Easy spread
- High shear strength

Technical Data:

Packaging:	PE container, tank
Sizing:	30kg and 1000kg
Hazard:	-
Active solids:	48.5±0.5%
Color:	Milky/Transparent
Specific Gravity:	1,06kg/l
Application Temperature:	min 15°C (ASTM 2354)
Consumption:	Depends on application method
Viscosity:	3000-5000 mPas
pH:	5.5 - 6.0
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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UZIN PE 465

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 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 5°C and relative humidity greater than 60%.
3. Stir well the adhesive prior to application to homogenize well.
4. Keep always clean of 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 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.
6. Always close tightly lids of the containers to prevent 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
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.