High-quality folding boxes require professional pre-treatment of the gluing surfaces

Openair®-Plasma in the pre-gluing machine and with the folding box manufacturer

Safe gluing of long seams in high-quality laminated or coated folding boxes is made possible by pre-treatment of gluing surfaces with Plasmatreat. The glue seams or surfaces become clean and wettable with pre-treatment. This guarantees homogenous long lasting bonding even at higher linear speeds up to 600 m/min or in high speed carton eretching machine.

Usage fields
Laminated and coated carton blanks such as those for
- OPP, PP, PE foils
- Acetate foils
- Metal-coated foils
- PET coatings
- Colored coated blanks (UV paint)
- Impregnated blanks

Pre-treatment fields
- Pre-treatment of gluing seam and surfaces made possible
- 4–8 mm wide gluing seam, areas or endless reels
- Simultaneous pre-treatment of long seams or flaps on automatic bottom boxes
- Pre-treatment of front and back sides made possible in one work step
- Contour pre-treatment with window gluing machines with laminated blanks

Process safety
- Activated clean gluing surfaces
- Checking and monitoring of plasma functions with light control
- Controlling of all pre-treatment parameters and transmission to data recognition by the pre-gluing machine

www.plasmatreat.de
AIDE16_03 Collapsible box and assembly systems
The effectiveness of plasma treatment

Chemical-physical preparation of the gluing surfaces:

- Cleaning of organic residues - precision cleaning
- Pre-treatment of the gluing surfaces increase surface tension >72 mN/m
- No visible marks on surfaces, consequently no material notching (break-off point) with laminated blanks.

Environmental requirements

- Plasma is environmentally friendly
- No noxious ozone is produced
- No thermal strain on surfaces
- No mechanical grinding needed, consequently of dust
- Far-reaching application of standard glues and decomposable glues made possible

Installation and retrofitting

- Simple attachment to new pre-gluing and carton erecting machinery
- Uncomplicated retrofitting to existing machinery
- Installation of plasma pre-treatment prior to application of glue (wheel glue applicator or jet glue applicator)
- Simple electric connection or electrical synchronisation

Profitability and glue standards

- High-quality of gluing
- For pre-treatment of gluing surfaces with Openair®-Plasma standardisation of glues is made possible with many applications
- High linear speed up to 600 m/min
- With the in-line process there are no additional process steps or costs, only electricity and compressed air are required
- Reduction of cleaning times and glue costs

Format standardisation and universal application

- Simple format and material change
- Usable with different surfaces (laminated or printed)

Our Openair®-Plasma machines are flexibly usable with all pre-gluing machinery. The plasma equipment is fixed on rollers and is movable.

Ever-higher quality packaging and surfaces entail increased demands on gluing surfaces. Openair®-Plasma is the solution in pre-treatment of gluing surfaces in the packaging industry.