

PLEVA Process Optimisation in Coating Processes (Textile/Carpets)

The existence of many textile finishing companies in Europe is directly linked with the successful implementation of coating technologies for diversification. The market need of changed handle of fabric like e.g. soft, hard, stiff, double face, heavy or closed surface and completely changed functions of textiles like e.g. hydrophobic, hydrophilic, block out, flame retardant or water proof has given a high pressure onto the textile finishers to get these processes under control. Pleva GmbH is supporting the textile finishing and carpet industry with well proven further developed measuring and control systems.

Great Success in reputable companies

Van Klewe (D)
Junkers & Müllers (D)
Bamberger Kaliko (D)
Artex (NL)

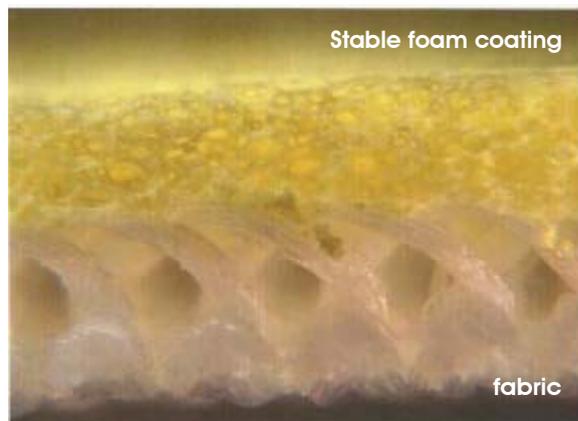
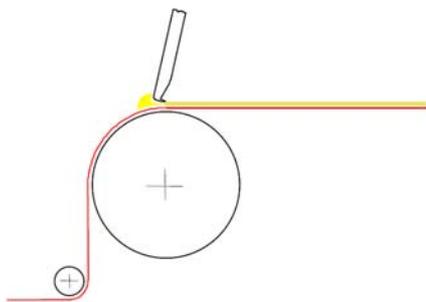
Sustainable Cost Reductions

Key Advantages:

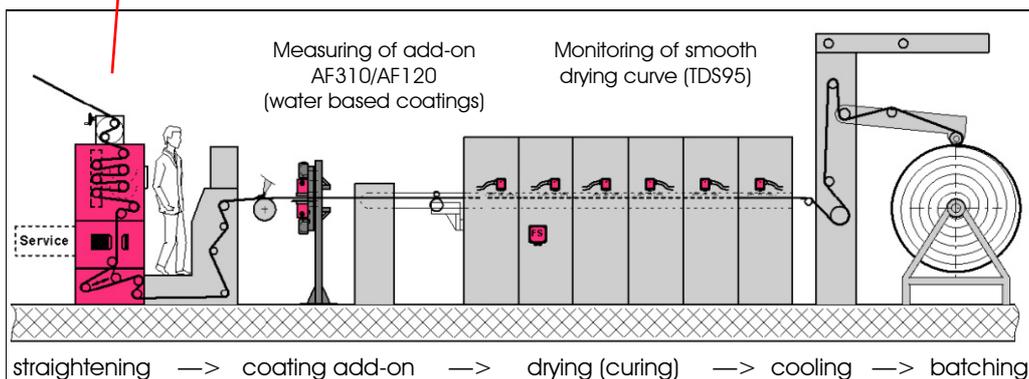
Quality Assurance
Productivity Increase
Energy Saving
Saving of Material
Process Transparency
Consistently Reporting

Elimination of:

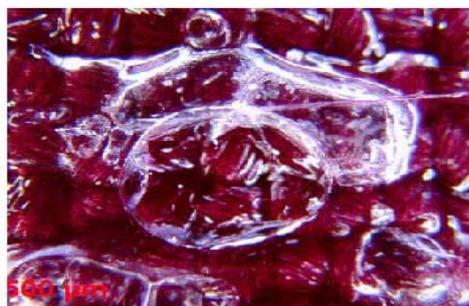
skin build up
mud cracking
formation of bubbles
film breakage



Perfect straightening before coating head with PLEVA StraightLiner SL 1



mud cracking



formation of bubbles



AF 310 Microwave Absorption



AF 310 installation directly after the coating head just in front of a coating stenter

The coating add-on is monitored online. Depending on the availability of electrically controllable actors on the coating head automatic control of add-on is possible.

Measurement of coating add on (side/centre/side)

No Expenses on Radiation Protection

Simple Calibration

Typical measuring ranges:

10 and 5000 gH₂O/m²
Independent from speed and fluttering web



The standard coating paste is based on a defined ratio between water and solids. The water content is measured contact less, continuously and accurately by the microwave system. The amount of absorption of microwave is a measurement of the absolute moisture content and the coating addon. Reproducible adjustments are made with this reliable output signal.

Coating Drying/Curing

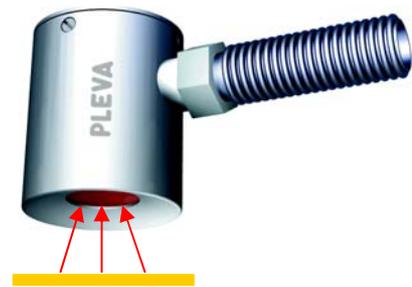
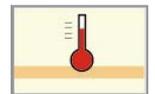
2 main questions occur in coating quality problems

1. Too hot or not ?
2. Too fast or not ?

Special features of TDS 95 S

The temperature sensor TDS 95 is measuring contact-free inside a coating dryer. The measuring principle is based on exchange of thermal radiation between the material and the sensitive surface of the TDS 95 sensor.

Several TDS 95 sensors are used over length and width for coating drying/curing processes to monitor the smooth drying process.



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Depending on the weight / type of fabric and the thickness of the coating paste the surface temperature only is not sufficient enough for monitoring and control of drying / curing processes. Therefore the sensor shows two °C temperature information.



Modul AddControl

Simple and user-friendly software for conversion form PLEVA scale divisions (AF 120/ RF 110, AF 310) into g/m² coating add-on or moisture % with monitoring tolerances.