RHEOLASER COATING

REALISTIC TESTING CONDITIONS
The only instrument to precisely characterize coating properties without stress

FILM FORMATION
Characteristic times determination
- drying times
- open times
- curing times...

DRYING MECHANISM
Characteristic drying signature identification: particle packing, particle deformation, curing...

ADAPTABLE MEASURING HEADS
Up to 4 measuring heads possibilities to simultaneously compare coating properties.

OPTICAL COATING CHARACTERIZATION

MICRORHEOLOGY

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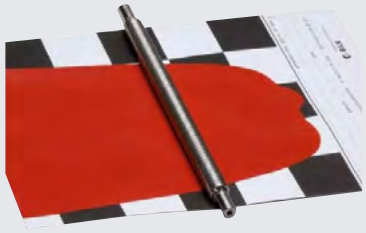
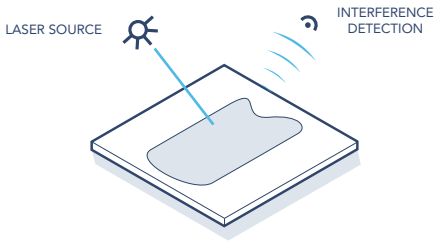
Smart scientific analysis

OPTICAL FILM FORMATION **ANALYZER**

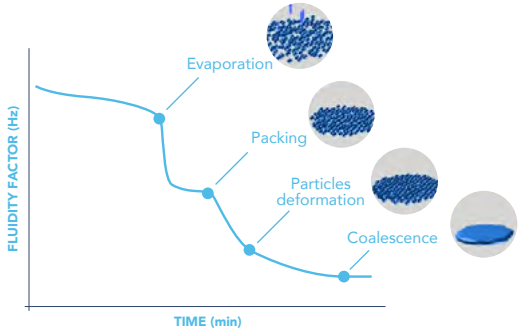
Rheolaser®COATING enables monitoring of microstructure changes during the film formation process. Based on diffusing wave spectroscopy (DWS), it identifies the drying mechanisms and characteristic drying times on any kind of substrate. It works on any film-forming product or coating, such as inks, paints, varnishes, resins, binders, cosmetic films...



MEASUREMENT **PRINCIPLE**



Rheolaser®COATING is based on Multi Speckle Diffusing Wave Spectroscopy (MS-DWS) and detects particle Brownian motion. A thorough analysis of wave interferences, due to particle mobility, provides information about the properties of the structure. During film formation, different mechanisms can be detected: evaporation, packing, deformation…and characteristic parameters of coatings can be determined.



KEY **BENEFITS**

NON-CONTACT FILM FORMATION ANALYSIS

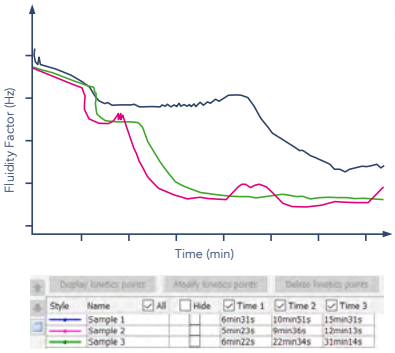
- Long term analysis without stress
- Film formation monitoring and drying mechanisms identification.

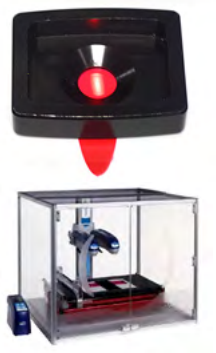
SIMPLE EXPERIMENTAL SET-UP

- Easy sample manipulations, compatible with automatic coater for better thickness control and applications (from 5µm to 3mm).
- Up to 4 measuring heads for direct coating comparison

ADAPTED SUBSTRATES

Multiple possibilities of substrates to better reproduce actual application conditions: Glass, Ceramic, Wood, Metal…





APPLI**CATIONS**


Paint & Ink


Electronics


Cosmetics


Polymers

TECHNICAL **SPECIFICATIONS**

Technology	MS-DWS 650 or 850 nm
Applied thickness	5 µm - 3mm
Simultaneous measurements	1 to 4
Temperature range	RT
Measurement time	Seconds to Days
Automatic application	Compatible with automatic coater
Dimensions	70 x 60 x 62 cm
Weight	45kg

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