

How it works ?*

Optical measurement of the scatterers motion inside the sample as a function of time. As the film progressively forms, the scatterers motion decreases due to an increase in the film viscosity.

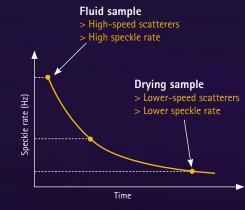
*see technical brochure



Film-forming sample with moving scatterers



Speckle image showing pattern deformation



Kinetics of film formation

Horus, the eye of the falcon Horus is the name of the falcon-headed Egyptian god. Like the falcon, able to detect from high above the movements of small prey, the A.S.I.I. technology measures scatterers



Features and **Specifications**

Dimensions and Weight:

70x60x62 cm / 27.3x23.4x24.2 inches 45 kg/ 99 pounds. **Power Supply:** AC 100 to 240V - 50/60 Hz. **Minimum Computer Configuration:** PC: Pentium 500 MHz - RAM 128MB -Hard Disk 4GB. OS: Windows compatible USB (Win98 ME, Win2000 & XP). Communication port: USB.

Measuring Heads: 1 to 4 measuring heads. Laser Class II (0.9mW - 650 nm). CMOS video camera.

Data Acquisition: From few seconds to several days. Up to 30 acquisitions/sec.

Automatic Coater Configuration

Autostart function for short drying times



10 impasse Borde Basse 31240 L'Union (Toulouse)- France Tel. +33 (0)5 62 89 29 29 Fax +33 (0)5 62 89 29 20 www.formulaction.com faction@formulaction.com



HORUS ADVANCED DRYING ANALYSIS

A unique tool to investigate film formation





Simple and Easy Place your substrate under the laser beam

2 Sample your product at desired thickness

3 Click to start measurement : the drying kinetics are displayed in real time by HoruSoft.

Application Fields Drying and curing of :

Paints - Inks - Resins - Binders - Varnishes Adhesives - Cosmetics... Any system: water-based, solvent-based, solvent free, two-components...

Monitor dryir properties of prod



Realistic Test Conditions

Optical non intrusive measurement Open measurement Up to 500 micron sample thickness Reproducible and repeatable

Measurement on Various Substrates

Metal, plastic, glass, wood, concrete, paper, film...

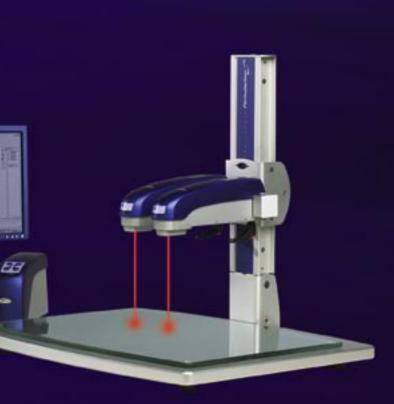


Simultaneous **Measurements**

The instrument is available in a "multiple heads" configuration to allow simultaneous measurements :

- for comparison with a reference sample in identical conditions (temperature, humidity...)
- for higher productivity.

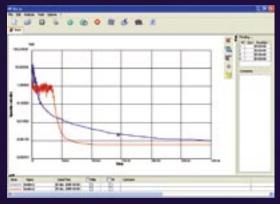
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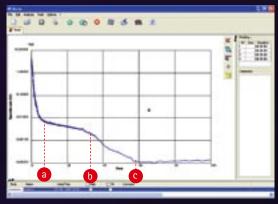


Mechanisms



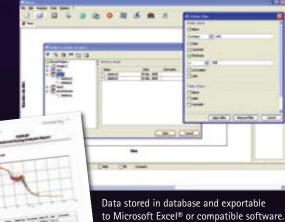
Different products (water-based and solvent-based) => Different drying mechanisms => Different kinetics profile

Characteristic Times



Determination of characteristic drying times: a dust-free **b** touch-dry **c** dry-hard

HoruSoft on Windows



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