Reducing Plant Costs by Improving Coating Process Control

Industry Update from Sensory Analytics
The sole source for SpecMetrix® technology

- Unique optical technique for all can coatings
- Cost-saving solutions exclusively from Sensory

Latest evolution of film weight measurement

- Gravimetric weight methods
- Capacitance gauging
- Basic and indirect optical tools
- Absolute SpecMetrix thickness measurements

Winner: Innovation (Gold) Award - Metpack
Winner: 2014 ICE ASIA innovation Award
Opportunity: Real-Time Coating Process/Film Weight Control

Reduced plant production costs
- Shorter set-up and change-over times
- Improved coating consumption
- Less waste and over-application
- Increased production throughput

Improved coated product quality
- All container coatings accurately measured
- Non-contact and immediate thickness results
- More QA data with improved documentation

Reduced environmental footprint
- Less solvent usage
- Less oven usage and lower energy costs
2-PC beverage and food containers
Coated end-stock and metal coils
Coated flat sheets
Coatings over all print and colors
Closures, caps, tabs and ends
Laminated films to metal substrates
Aerosol, specialty containers and tubes
SpecMetrix® systems can measure all internal and external beverage container coatings, including:

- Inside spray
- Base coats
- Tab stock - all colors
- Coated end stock
- Rim coats
- Matte and textured finishes
- Over-varnish - even over print or black

2-PC Beverage Containers
Over-Varnish Measurement Mapping of 2-PC Containers

SpecMetrix® ACS Systems help plants to:

Optimize coating processes
Minimize overlap areas
Industry Impact:

Over-Varnish Mapping Shows Actual OV Film Weights

OV map: Can **without** ink

OV map: Can **with** ink

Bare can OV measurement causes over-application of coatings on printed can
Avoiding Rim Coat Measurement Issues on 2-PC cans

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Thickness specifications for rim coat helps eliminate downstream process issues.
Current Range of SpecMetrix® Certified Coatings

SpecMetrix® systems can measure all internal and external food, aerosol, closure and specialty packaging container coatings, including:

- Lacquers and UV coatings – even over print and colors
- White coatings
- Aluminized coatings
- Base and Size coats
- Wash coats

3-PC, Flat Sheet, Food, Aerosol, Specialty and Closures
SpecMetrix system configurations for metal container plants
Corporate R&D, Tech Centers and Plant QA Stations

2-PC Beverage

3-PC, Flat Sheet, Food, Aerosol, Specialty and Closures

Superior Gage R&R results
Detailed mapping of from 1-12 cans
Full or target area mapping
OV and inside spray QA & mapping
All internal and external coatings
Spray nozzle and OV adjustment tool

Multiple container measurements
Beverage and food container use
Manual or conveyer loading/return
Inside spray and OV mapping
Option: Integrated Enamel Rater
In-Process Film Weight Control

- In-line inspection of wet or dry flat sheets & end stock
- Single sheet weight checks for fast 1st piece approval
- Measures at over 600 metres per minute
- Running average shown – with all data saved or ported
- Closed loop film weight control now available
Process improvement can be immediate with real-time coating data.

Using SpecMetrix, all applied coating distribution can be optimized.

Major dual-benefit opportunity: cost-reduction and improved quality.

Enhanced process control can offer new can maker opportunities:

- **SpecMetrix**: a benefit to BPAni coating qualifications & trials
- **SpecMetrix**: a means to reduce environmental impact & waste
- **SpecMetrix**: tools to help plants find unrealized cost savings

Expanding global network of SpecMetrix partners to assist you.
Visit us on-line to arrange a plant visit or to discuss how to assist your business