PHASE AREA PERCENTAGE ANALYSIS

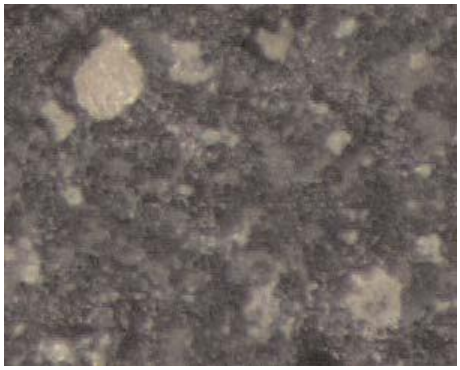


Figure 1: *An enlarged section of panel 4.*

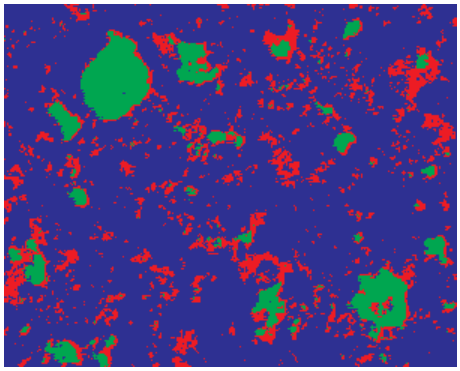


Figure 2: *Phases as measured: Panel 1 in blue, panel 2 in red and panel 3 in green.*

Sample Description

Six coated panels are submitted for analysis. Panels 4-6 represent finished multicomponent coatings with various concentrations of panel 1-3 (precursors used to give the speckled effect).

Purpose of Analysis

Demonstrate the ability of the Clemex Vision image analysis system can distinguish phases according to their gray (or color) level range and perform size measurements on them.

Procedure

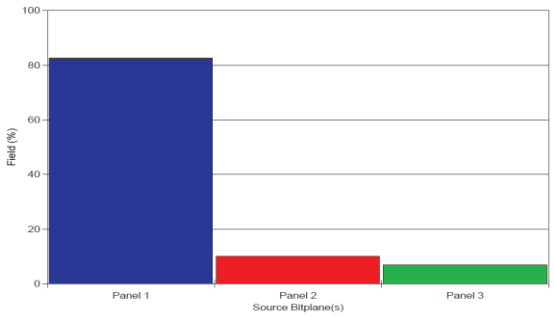
Using Color Threshold instructions and some binary tools, all three phases are binarized into 3 different bitplanes. No separation manipulations are done prior to measurements.

Equipment

Image Analysis System:	Clemex Vision PE
Stereoscope:	Leica M2125
Camera:	Clemex L 1.3C
Calibration	24.1509 microns/pixel
Magnification:	25X

Results

Length measurements are performed on each feature. Area percentage of each phase is also performed. Automated statistics and graph are generated and cumulated during the analysis of the sample. Final results can be printed directly from Clemex Vision. Raw data can be exported in Excel format.



Bitplanes	*Field (%)*
Panel 1	*82.749*
Panel 2	*10.189*
Panel 3	*7.063*

Figure 3: *Area percentage of each category found on Figure 2.*