Application Engineering Report

Techspray 2127 SRV

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One Mustang Drive
Cohoes NY 12047
tel 518 371 2684
fx 518 371 2688
www.pva.net

Project Description

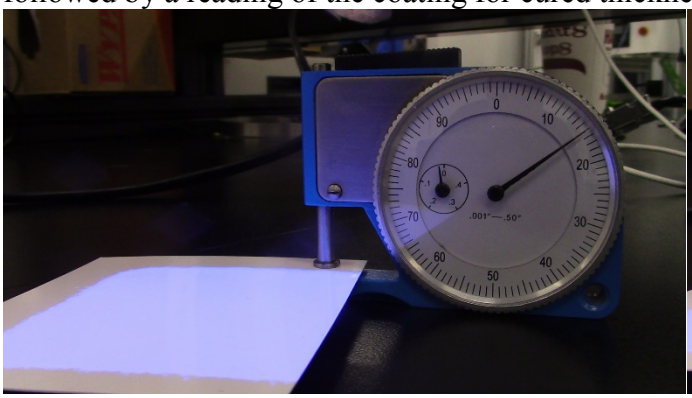
Conformal coating sample coupons with new material formulation

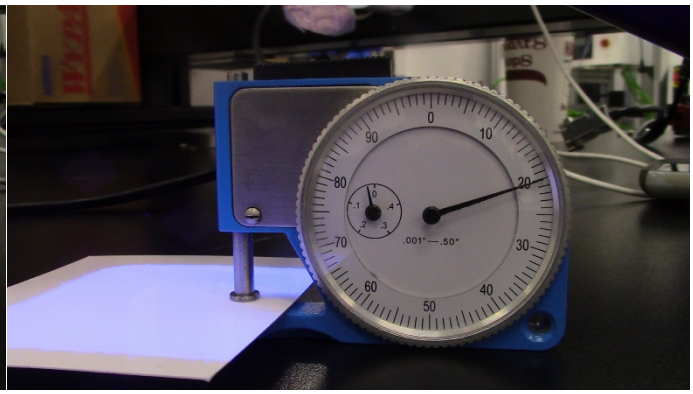
Equipment and Materials Used

Delta-8 4-axis conformal coating machine
FCS300-ES atomizing spray valve
Techspray Fine-L-Kote SRV 2127 conformal coating
Customer supplied coupons
Convection oven

Process and Setup Notes

The material was sprayed upon a BYKO card and cured. After cure, the card was then cut to be able to measure the inner parts of the area pattern. A measurement of the uncoated BYKO was taken for the base thickness followed by a reading of the coating for cured thickness.





The difference of ≈ 0.005” was the result and the goal to spray on the coupons.
The samples were left out to flash of at room temperature for ≈ 10 mins and then cured in the convection oven for ≈ 15 mins @ 100°C (212°F).

Settings

FCS300-ES
Material: 2127
Dilution: none
Stroke: 0.014”
Atom air: 0.9 psi
Fluid pressure: 10 psi
Z-height: 10 mm
Path speed: 100 mm/sec
Area spacing: 4 mm
Dry film thickness: 5 mil

Summary

The Techspray 2127 SRV sprayed well with fine control.

Prepared By:

Christopher J. Evans

Christopher J. Evans
Applications Engineer
PVA