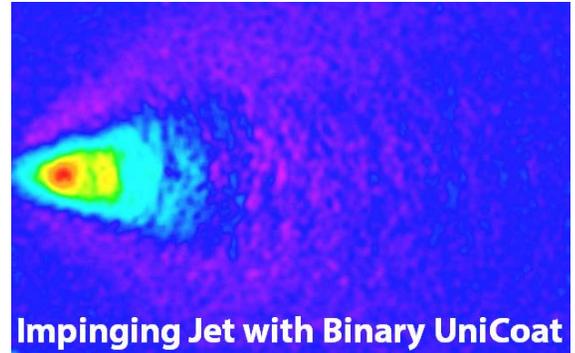


Binary UniCoat Pressure Sensitive Paint

(Product ID: BUNC-12)

Binary UniCoat is a dual-luminophore pressure sensitive paint (PSP) packaged in an aerosol can for ease of application. The binary PSP approach involves acquiring data from two distinct luminescent dyes and using these signals to compensate for errors caused by model displacement and deformation. Binary UniCoat has higher temperature sensitivity and lower pressure sensitivity than FIB-based paints as shown in the calibration below. A desirable feature of Binary UniCoat is ease of application. Simply shake the can and spray the surface. The result is a single coat application paint that may be applied directly to most materials. Binary UniCoat is an effective quantitative PSP in isothermal environments (large metal models and temperature controlled tunnels) or where strong pressure variations are present (transonic flows). It is also effective in compensating for errors due to model displacement and deformation. Binary UniCoat is recommended for introductory PSP users who seek an inexpensive means to gain experience with binary paints.

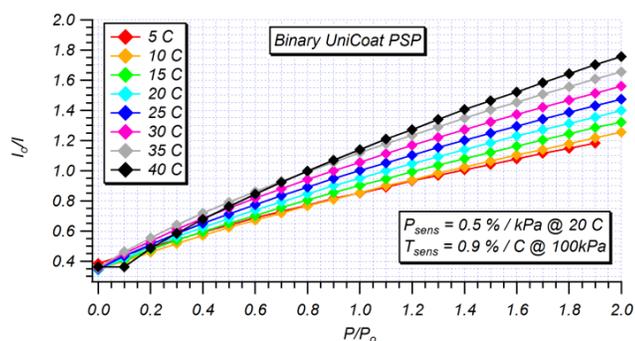


SPECIFICATIONS

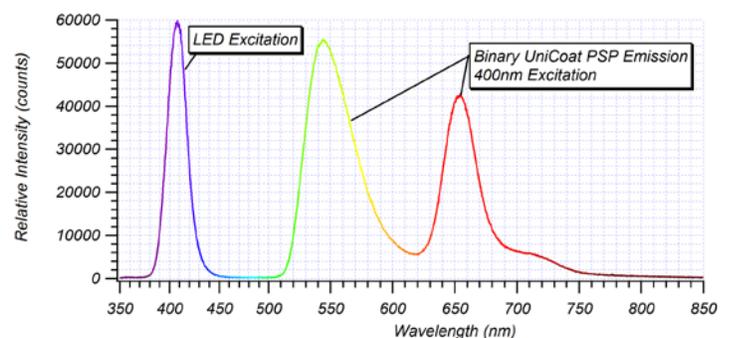
Pressure sensitivity	0.5% per kPa
Pressure range	1-kPa to 200-kPa
Temperature sensitivity	0.9% per °C
Temperature range	-10°C to 60°C
Response time	750 ms
Excitation	380-nm to 520-nm (400-nm ideal)
Emission	500-nm to 750-nm
Photo-degradation rate	1% per hour
Shelf life	12-months
Filter	495-nm
ECCN	EAR99



Available Quantities: 12-oz aerosol spray can



Calibration



Spectral Response (PSP Emission Scaled)

Innovative Scientific Solutions, Inc.
7610 McEwen Road, Dayton, OH 45459
Phone (937) 630-3012 Fax (937) 630-3015

email: issi-sales@innssi.com
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