

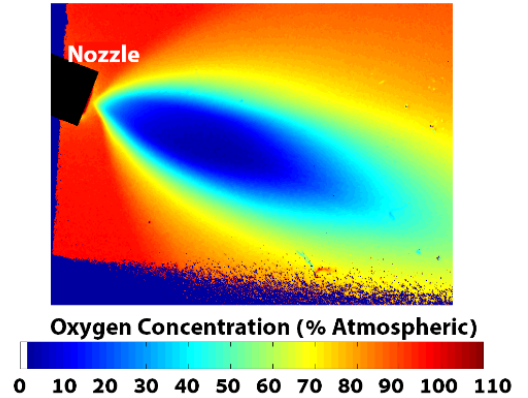
UniCoat Pressure Sensitive Paint

(Product ID: UNC-12)

UniCoat is a single-luminophore pressure sensitive paint (PSP) packaged in an aerosol can for ease of application. UniCoat has slightly higher temperature sensitivity and slightly lower pressure sensitivity than UniFIB PSP, but is a simple shake and spray application at a lower cost than other products and is ideal for academic purposes. This single coat application paint may be applied directly to most materials. UniCoat is an effective quantitative PSP well suited for isothermal environments (large metal models and temperature-controlled facilities) or where strong pressure variations are present (transonic and supersonic flows).

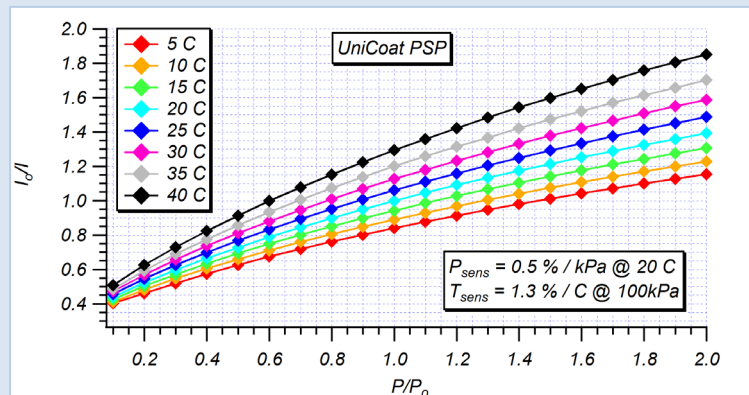
UniCoat is recommended for introductory PSP users who seek an inexpensive paint for the purpose of developing their PSP capabilities.

Nitrogen Jet Impinging on UniCoat PSP

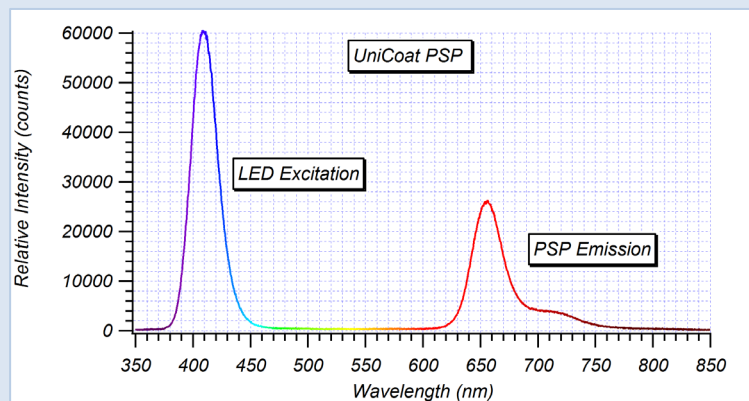


SPECIFICATIONS

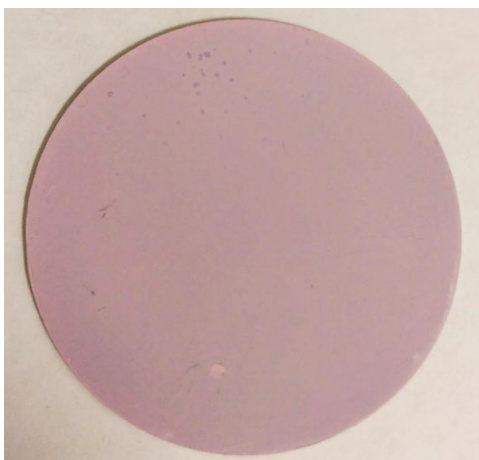
Pressure sensitivity	0.5% per kPa
Pressure range	1-kPa to 200-kPa
Temperature sensitivity	1.3% per °C
Temperature range	-10°C to 60°C
Response time	750 ms
Excitation	380-nm to 520-nm (400-nm ideal)
Emission	620-nm to 750-nm
Photo-degradation rate	1% per hour (Excitation)
Shelf life	12-months
Filter	610-nm
ECCN	EAR99
Available Quantities	200-, 400, 750-ml



Calibration



Spectral Response (PSP Emission Scaled)



UniCoat PSP