

PVS1™

PAINT VOLUME SOLIDS INSTRUMENT

Accurately predict dry film build using measured paint volume solids data and hit your target film build from the commencement of every production run.

The Paint Volume Solids Instrument is a compact and robust portable instrument designed for operation in industrial and laboratory environments. It measures paint volume solid content so that the wet paint film thickness can be directly and reliably translated into the equivalent dry film thickness. When used in conjunction with WFM1 data from PVS1™ is used by the Wet Film Monitor WFM1™ to accurately predict dry film thickness well before you commence painting.

The instrument allows rapid and simple precise determination of paint volume solids. A small drop of paint taken from the drum, paint tray, spray head, coating or pick-up roll is analyzed quickly and with high precision. Results are automatically stored in a database for future reference, statistical analysis and reporting.

PRINCIPLE OF OPERATION

The instrument precisely measures and compares the volumes of a paint sample before and after curing. After measurement of the wet volume, solvents are driven out by an oven cure cycle that targets the same degree of cure as on your paint line. Optionally, the instrument can be tailored to simulate any industrial curing or drying mechanism or sequence. Once cured, the dry volume is measured. Simply put, PVS1™ measures the volume change that occurs in the transformation from a wet paint film to fully cured paint film.

Requiring only a small volume of paint, the measurement is performed by a non-contact laser sensors to an accuracy of better than 0.5 percent. Sophisticated algorithms convert sensor measurements into accurate paint volume data. The entire analysis sequence is automatically controlled resulting in assured quality with minimal operator training. Measurements are as simple as inserting the sample into the instrument and initiating the measurement and analysis cycle with the press of a button.



KEY FEATURES

PVS1 is the only device IN THE WORLD that performs an actual Volume Solids Test producing a true Volume Solids Result¹.

- ✓ Accurately predict dry film thickness before painting
- ✓ Four-minute analysis cycle – Fast, simple & easy to use
- ✓ Monitor paint consistency – batch to batch and supplier to supplier
- ✓ Reduce scrap through the reduction of test strips.
- ✓ Reduce off-colour defect by up to 50%
- ✓ Obtain the real cost of applied paint
- ✓ Confidence of knowing the precise volume solids content of part drums and previously reduced coatings
- ✓ Historical database of all previous PVS results
- ✓ PVS1 shows a typical scan of a wet and a dry film sample:



Note 1: ASTM and ISO test methods are not a true volume solids test.

DIMENSIONS

- ✓ PVS1 Measurements: 230mm wide X 410mm deep X 340mm high
- ✓ Machine Weight: 15kg
- ✓ Power: 240V or 110V 50/60 Hz AC, 10 Amps.
- ✓ Measurement Accuracy: +/- 0.5%
- ✓ Measurement Reproducibility: +/- 1%

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