

Paint Test Equipment

Paint Evaluation Tool Data Sheet





Complies with International Standards

ISO 2808-5B

ASTM D 4138

BS EN 3900-CS-5B

Paint Evaluation Tool

A precision instrument that gives an exact measurement of the paint thickness on virtually all substrates, for example, coatings on Concrete, Plastic, Wood, etc. Individual coats can also be measured in multiple-coated applications.

The Paint Evaluation Tool has a precision-ground, hardened steel cutting head incorporating three cutting angles, catering for coatings from 2µm to 2000µm (0.1mil to 79mils).

Measurements are made by dragging the cutting edge of the selected cutter across the coating, ensuring the cutter penetrates through to the substrate. Using the Microscope, measure one side of the angled cut with the graticule to get the exact coating thickness.

Supplied in a Foam-Filled Carrying Case with Microscope, Intrinsically Safe Pen Torch and Marker Pen.

Paint Evaluation Tool Specifications

Part No	Substrate	Range Angle 5.7°	Range Angle 26.6°	Range Angle 45°	Resolution Angle 5.7°	Resolution Angle 26.6°	Resolution Angle 45°	Conformance Cert Part No
D1002	Any Substrate	2–200µm 0.1–7.9mils	10–1000µm 0.5–39mils	20–2000µm 1–79mils	2µm 0.1mil	10µm 0.5mil	20µm 1mil	NC001
DS001	Spare Cutter Head							NC001

Operation

Cutting

Select the required cutting angle for the thickness of coating that you are testing.

Hold the Paint Evaluation Tool firmly in the hand and draw the cutting edge across the coating to be evaluated, ensuring that the cutter penetrates through to the substrate. The cutter will make three cuts in the surface: two fine cuts each side (these are to steady the cutter) and in the centre a larger wedge cut. To assist the measurement, you can mark the test piece with the marker pen at the location where the cut is going to be made.

Taking Readings

Place the x50 Microscope over the cut and with the graticule, measure the side of the wedge cut that has the selected angle to obtain the coating thickness.

Depending on the angle being used, each scale division on the graticule represents a certain thickness.

Angle 45°, 1 scale division equals 20µm.

Angle 26.6°, 1 scale division equals 10µm.

Angle 5.7°, 1 scale division equals 2µm.

If using an angle of 26.6° or 5.7°, the angle of the other side is 45°. If required, this can also be used without the need to make another cut.

For testing in dimly lit locations there is an intrinsically safe pen torch supplied.

Changing Cutting Head

Each cutting head segment has two cutting edges. When one edge becomes blunt simply remove the cutter head by removing the retaining screw and turn the cutter head around until the second new unused cutter edge is selected. Replacement Cutting Heads are available.

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About us

Paint Test Equipment are manufacturers of a comprehensive range of specialist instruments for the Industrial Coatings and Finishings Industries and have been supplying instruments to customers worldwide for over 25 years.

During this time Paint Test Equipment have established a reputation for manufacturing quality instruments to the highest specification, to meet the demanding requirements of the Industrial Painting Industry.

Recalibration

Paint Test Equipment can service and recalibrate all applicable products that we supply.

We recommend that the equipment is returned on a 12-monthly basis to Paint Test Equipment for service and recalibration.

Calibration Certificates will have traceability to UKAS or BAM. The Certificate is supplied in a paper format and is available online through the Calibration Portal (under Browse Categories) on our website. The Calibration Portal will list all your equipment that is calibrated by Paint Test Equipment, showing the renewal dates and allowing Calibration Certificates to be viewed at any time.

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