

Elcometer 550 Non-Contact Powder Thickness Gauge



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Can be used in accordance with:
ASTM D7378-C

Easy to Use

- ③ Easy to read, large colour display
- ③ Adjustable screen brightness for all test conditions
- ③ Ergonomic probe - ideal for continuous testing
- ③ Can be used straight out of the box with minimal set up time
- ③ On-screen guidance graph and handle LEDs help you orientate the probe sensor for fast, accurate measurements

Reliable

- ③ Fast, accurate and repeatable results
- ③ Proven, 3rd Generation, airborne ultrasonic technology
- ③ User-programmable setup to account for varying powder shrinkage rates

Enhanced Technology

- ③ Measure thicknesses from 30 - 110µm (1.18 - 4.4mils)
- ③ 1mm_c (0.04 sq in) measurement area - ideal for flat, curved and small surfaces
- ③ Test coatings on a wide range of substrates, including metal, wood, MDF, plastic and pre-coated surfaces

By carefully controlling the thickness of powder applied to a product, you can minimise your powder usage and ensure the quality of your coating. As contact measurement solutions damage the finish and do not predict the cured coating thickness, measuring the powder thickness pre-cure requires a non-contact solution.

Using third generation proven airborne ultrasonic technology, the new Elcometer 550 accurately predicts cured coating thickness by non-contact measurement of coating powders.

- ③ Accurately predicts the cured coating thickness within ± 5% of the reading or ±5µm (±0.25mils)
- ③ Ergonomic gun designed for comfort when taking multiple readings
- ③ Hand held sensor allows easy positioning of the gun for fast measurement
- ③ Large illuminated colour display with positioning graph to guide orientation of sensor probe
- ③ Tough aluminium case, ideal for testing in an industrial environment

Wet Film and Powder Thickness

Whether you are applying a liquid or powder coating, by measuring the uncured film thickness, it is possible to determine the eventual dry film thickness.

Applying too much coating not only wastes time and materials, it can also affect the performance and finish of the product. Too much wet film can cause the coating to crack as it cures; too little coating increases the risk that the substrate will not be sufficiently protected, leading to rust spots.

In the powder coating industry, ensuring the end product has the correct levels of adhesion and appearance is dependent on the thickness of the powder prior to the curing process. Too much powder can lead to poor adhesion, too little can lead to a discolouration and loss in gloss of the coating.

The three methods for measuring wet film thickness are:

Wet Film Combs
 Pfund Thickness Gauges
 Wet Film Wheels

In each case, the thickness of the coating is measured and the dry film thickness can be estimated using the coating's solid : wet ratio.

Whereas wet film measurement is non-destructive, the measurement of powder thickness using any form of contact with the uncured coating, causes the powder to compress, altering its thickness. The revolutionary Elcometer 550 determines the cured powder thickness by the non-contact measurement of the uncured coating, making it an ideal solution to powder coating measurement on the production line.



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TECHNICAL SPECIFICATION	
Display	3" inches (90mm) QVGA Colour LCD
Power Supply	Rechargeable NiMh battery, up to 7 hours continuous use
Measurement Range	30 - 110µm (1.18 - 4.4mils)
Resolution	1µm (0.04mils)
Measurement Accuracy	±5µm (±0.25mils) or ±5% of the coating thickness, whichever is greater
Measurement Offset Distance	~16mm (0.63") from the coated substrate
Measurement Area	1mm _t (0.04sq in)
Operating Temperature Range	10°C to 35°C (50°F to 95°F)
Units	µm / mils switchable
Dimensions	115 x 185 x 35mm (4.6 x 7.4 x 1.4")
Weight	900g (1.9lbs)
Part Number	A550----4 Elcometer 550 Non-Contact Powder Thickness Gauge
Packing List	Elcometer 550 Gauge with rechargeable battery, universal charger unit and cable, sensor gun and lead, shoulder harness, reference block, USB-PC transfer cable, carry case, calibration certificate and operating instructions

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Related Products



Elcometer 155

Elcometer 155 Uncured Powder Film Comb

Available in four scale ranges, the Elcometer 155 is designed to measure uncured powder coating film thickness. This enables the application system to be set up and fine tuned prior to the curing process. In turn, this will reduce the amount of scrap and overspray.

The Elcometer 155 is not available for sale in the USA

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