

Elcometer 550 Mark II Non Contact Uncured Powder Thickness Gauge*



Elcometer 550 Mark II Non-Contact Uncured Powder Thickness Gauge

At a glance

- *Non contact measurement of uncured powder thickness.*
- *Uses unique ultrasonic technology and can predict final thickness of coating after cure.*

Can be used in accordance with:
ASTM D 5101-15

The gauge has been designed for measuring the thickness of uncured powder coatings on smooth flat or curved metallic surfaces such as steel, aluminium, etc. The shrinkage that occurs when the powder cures in the oven is allowed for in the calibration of the gauge and the thickness displayed is the final coating thickness after cure.

Standard features:

- Uses ultrasonic technology to measure the thickness of the uncured powder coating, without touching the surface
- Can be used on all metallic surfaces, with all commercial powders.
- Helps to easily avoid edge runs and orange peel effect by improved monitoring and control.

* USA Patent Number 6250159 B1

Elcometer 550 Mark II Non Contact Uncured Powder Thickness Gauge

The Elcometer 550 Mark II offers the User with an unrivalled approach to measuring uncured powder thicknesses - without touching the powder.

The Elcometer 550 Mark II is designed provide the user with the correct value of the cured film thickness by the measurement of the uncured powder coating film thickness, enabling the application system (powder guns, line speed, etc) to be set up and fine tuned.

- Improves quality and saves you money
- Fast, easy to use
- Metric and Imperial versions
- Works on any rigid surface

The Elcometer 550 Mark II is a coating thickness gauge that uses unique ultrasonic technology to measure uncured powder coatings without contacting the surface and predicts the final thickness of the coating after cure.

Powder Thickness Measurement – uncured

A powder coating has many advantages over a wet coating system, including:

- Little or no waste – excess powder or oversprayed powder can be recycled and reused
- No solvents – new, tighter environmental controls of VOC emissions and legislation increases the need to use less or no solvents.

Making sure that the end product has the correct levels of adhesion and appearance - in particular gloss and colour- is dependent upon the thickness of the powder prior to the curing process, and the temperature profile of the oven.

Measuring the thickness of powder however, is difficult as touching it changes the powder thickness compressing it under the force. Elcometer have therefore developed two solutions to this problem.

TECHNICAL SPECIFICATION	
Housing	Aluminium, dust-proof
Display	Graphic LCD, 128 x 64 pixels with backlight
Power Supply	Rechargeable Battery (NiMh 2100mAh)
Measurement Range	30 - 110µm (1.2 - 4.3mils)
Measurement Accuracy	±5µm (±0.2mils)
Measurement Offset Distance	Approx. 18mm (0.7")
Measurement Area	1mm (0.04")
Sample Rate	16 Pulse per second
Calculating Time	3 to 6 seconds
Operating Temperature	5 to 45°C (40 to 113°F)
Dimensions (L x W x H)	230 x 105 x 355mm (9 x 4.1 x 14")
Weight	1186g (2.6lb)
Resolution	1µm (0.1mils)
Packing List	Elcometer 550 Mark II Gauge with rechargeable battery, Battery Charger Unit with Separate Mains Power Supply, Ultrasonic Probe and lead, Calibration Standard and Operating Instruction Book

Model	Description	Part Number		
		UK 240V	EUR 220V	US 110V
Elcometer 550	Elcometer 550 Non-Contact Powder Gauge	A550----1	A550----2	A550----3
Accessories	Spare Battery Pack	T55016120		
	Calibration Block	T55016863		

Related Products



Elcometer 155

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 over-spray. the comb into the powder and slide the comb towards you.

Not available for sale in the USA.

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