Elcometer 155 Uncured Powder Film Comb*

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At a glance

- *Measure uncured powder coating thickness from 50-1250µm.*

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 over-spray.

Simply place the comb into the powder and draw the comb towards you. The measurement points (or teeth) are pointed and allow the powder to flow around them. The thickness of the powder lies between the biggest value where a drag mark is visible and the smallest value where a drag mark has not been produced.

Note: The thickness of a coating prior to cure is not necessarily the value after curing. The powder comb is only suitable as a guide only.

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.

	Metric	Imperial
Width	38mm	1.5"
Length	46mm	1.8"
Weight	18g	0.6oz
Tooth Accuracy	±5µm	±0.2 mils

Model	Description	Range	Part Numbers
Elcometer 155/5	Elcometer 155 Metric Powder Film Comb	50 - 225µm	B15513573-5
Elcometer 155/6	Elcometer 155 Metric Powder Film Comb	225 - 1250µm	B15513573-6
Elcometer 155/1	Elcometer 155 Imperial Powder Film Comb	2 – 9 mils	B15513573-1
Elcometer 155/2	Elcometer 155 Imperial Powder Film Comb	9 - 50 mils	B15513573-2
Elcometer 155/10	Metric Comb Set	50 – 225µm and 225 - 1250µm	B15513573-10
Elcometer 155/9	Imperial Comb Set	2 – 9mils and 9 - 50mils	B15513573-9
* The Elcometer 155 is not available for sale in the USA			

Related products

Elcometer 550

The Elcometer 550 offers the user an unrivalled approach to measuring uncured powder thicknesses - without touching the powder. By measuring the powder density as opposed to powder thickness, the gauge is designed to provide the user with the correct value of the cured film thickness by the measurement of the uncured powder thickness, enabling the application system (powder guns, line speed, etc) to be set up and fine tuned.

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