

Elcometer 123 Surface Profile Gauge



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This easy to use gauge measures the peak-to-valley height of a blast cleaned surface.

The average of a series of measurements provides an indication of the surface roughness and allows the surfaces to be compared as blasting proceeds.

Metric and Imperial versions

Surface Profile

The degree of profile on the surface affects a coating's overall performance. The height of the profile (measured from the peaks to the troughs) determines aspects such as adhesion, coverage and overall volume of coating used. If the profile is too large the amount of coating required to ensure adequate coverage increases, otherwise there is a danger that the peaks remain uncoated - allowing rust spots to occur. If the profile is too small, there may be an insufficient key to produce adequate adhesion, leading to premature coating failure. Ensuring the correct surface preparation optimises the performance of the coating and material usage.

There are four different methods available for testing surface profile:

- Surface Comparators
- Replica Tape
- Surface Profile Gauges
- Surface Roughness Testers

TECHNICAL SPECIFICATION

Range	0 - 1000µm (0 - 40mils)	
Scale	2µm (0.1 mil)	
Dimensions	105 x 55 x 25mm (4.1 x 2.2 x 1")	
Weight	335g (8oz)	
Part Number	E123A--M-	Elcometer 123 Surface Profile Gauge, Metric Version
	E123A--E-	Elcometer 123 Surface Profile Gauge, Imperial Version
Packing list	Elcometer 123 Surface Profile Gauge, glass slide, 2mm allen key, carry case and operating instructions	

Related Products



Elcometer 7061

Elcometer 7061 MarSurf PS1 Surface Roughness Tester

The Elcometer 7061 is a light weight and portable measuring solution for the range of surface roughness measurements required for compliance to International Standards.



Elcometer 223

Elcometer 223 Digital Surface Profile Gauge

A Digital Surface Profile Gauge which measures the peak-to-valley height of a surface in a similar way to the Elcometer 224.



Elcometer 124

Elcometer 124 Thickness Gauge

The Elcometer 124 Thickness Gauge is used to measure peak-to-valley height of a surface profile moulded in the Elcometer 122 Testex Replica Tape.



Elcometer 122

Elcometer 122 Testex Replica Tape

Elcometer 122 Testex Tape consists of foam with a non-compressible backing. The foam side is rubbed into the surface providing a permanent mould of the peak-to-valley profile, which can be measured using the Elcometer 124 Thickness Gauge.



Elcometer 125

Elcometer 125 Surface Comparators

These extremely durable comparators allow the estimation of surface roughness of either grit and shot blasted surfaces.



Elcometer 127

Elcometer 127 Keane-Tator Surface Comparators & Magnifier

The Elcometer 127 range of Surface Comparators are available in sand, shot or grit surface profiles. Each comparator is supplied with 5 profile grades ranging from 0.5 - 5.5mils.