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Elcometer 1537

ISO Scratching Tool

Operating Instructions

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Thank you for your purchase of this Elcometer 1537 ISO Scratching Tool. Welcome to Elcometer.

Elcometer are world leaders in the design, manufacture and supply of inspection equipment for coatings and concrete. Our products cover all aspects of coating inspection, from development through application to post application inspection.

This Elcometer 1537 ISO Scratching Tool is a world beating product. With the purchase of this product you now have access to the worldwide service and support network of Elcometer. For more information visit our website at www.elcometer.com

1 ABOUT THIS INSTRUMENT

The Elcometer 1537 ISO Scratching Tool is a simple but effective instrument which is used to scratch the surface of samples in preparation for adhesion, salt spray and corrosion tests. The tool is held horizontally and pulled across the sample to produce the scratch.

The Elcometer 1537 has a tungsten carbide blade which is set to give a 90° cutting angle with a 75° cutting edge.

This tool can be used to prepare specimens for testing to ISO 2063, ISO 7253 and NBN 755 standards.

1.1 WHAT THE BOX CONTAINS

- Elcometer 1537 ISO Scratching Tool
- Operating instructions

Your Elcometer 1537 ISO Scratching Tool is packed in cardboard packaging. Please ensure that this packaging is disposed of in an environmentally sensitive manner. Consult your local Environmental Authority for further guidance.

2 USING YOUR SCRATCHING TOOL

2.1 BEFORE YOU START

Ensure the blade of your Elcometer 1537 ISO Scratching Tool is sharp and undamaged.

2.2 PRODUCING A SCRATCH

1. Hold the instrument as shown below.
2. Place the cutting edge on the sample.
3. Exert slight downward pressure.
4. Pull the blade across the sample.

3 ISO 2063 SCRATCH TEST PARAMETERS

Use the tool to produce a lattice pattern of scratches in accordance with the following dimensions:

Approximate surface covered by the lattice	Thickness of coating (µm)	Distance between scratches (mm)
15 mm x 15 mm	≤ 200	3
25 mm x 25 mm	> 200	5

The depth of the scratch should be such that the coating is cut through to the substrate.

4 TECHNICAL SPECIFICATION

Blade material: Tungsten carbide

Cutting angle: 90°

Cutting edge: 75°

5 RELATED EQUIPMENT

In addition to the Elcometer 1537 ISO Scratching Tool, Elcometer produces a wide range of other coating testing equipment.

Users of the Elcometer 1537 ISO Scratching Tool may also benefit from the following Elcometer products:

- Elcometer 1538 DIN Scratching Tool
- Elcometer Elasticity and Resistance to Deformation Testers
- Elcometer Appearance Meters
- Elcometer Coating Thickness Gauges

For further information contact Elcometer or your local supplier. Details of Elcometer offices around the world are given on the outside cover of these operating instructions. Alternatively visit the Elcometer website, www.elcometer.com