Elcometer 4270

Sag Tester

Operating Instructions



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5 elcometer

Thank you for your purchase of this Elcometer Sag Tester. 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 Sag Tester 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 Sag Tester is a simple but effective instrument for applying uniform and reproducible strips of coating to a flat and relatively firm substrate. After application, the strips of coating are then assessed to determine the sag characteristics of the coating.

The applicator is placed at one end of the substrate and product is poured onto the substrate in front of the applicator.

The applicator is then pushed across the substrate to produce the strips of coating. Your applicator can be pushed by hand or by a motorised film applicator.

1.1 STANDARDS

Depending upon model, this instrument can be used in accordance with the following National and International Standards:

ASTM D4400, FTMS 141A Method 4494.

- Elcometer Sag Tester
- Storage case
- · Operating instructions

Your Elcometer Sag Tester is packed in a cardboard and foam package. Please ensure that all packaging material is disposed of in an environmentally sensitive manner. Consult your local Environmental Authority for further guidance.

To maximise the benefits of your new Elcometer Sag Tester please take some time to read these Operating Instructions. Do not hesitate to contact Elcometer or your Elcometer supplier if you have any questions.

2 APPLICATION PROCEDURE



Take care while you are handling and using your Elcometer Sag Tester. Damage to the working surfaces will affect the film thickness and the instrument may have to be replaced.

Before each use, check the working surfaces for irregularities and damage.

- 1. Fix a clean substrate on a flat and horizontal base such as a vacuum table.
- 2. Place the applicator down at one end of the substrate.
- 3. Pour a quantity of product in front of the applicator. Ensure that the product is evenly distributed over the whole width of the instrument.
- Spread the film over the substrate by moving the applicator towards the opposite end of the substrate at a constant speed.
- Lift the applicator from the substrate taking care to catch any product dripping from the applicator before it lands on the newly prepared film.
- Immediately place the substrate in a vertical position with the thinnest strip at the top. The thickness at which the strips join indicates the tendency of the coating to sag.



Clean your film applicator.



Do not use very aggressive solvents or wire brushes, metal scrapers, metal files or other metallic tools for cleaning.



Clean the applicator using a suitable solvent.

After cleaning, ensure that all materials are removed and that the instrument is dry.

4 STORAGE

When the applicator is not being used it must be protected from rust. Rust can appear when the instrument is only used occasionally and when it has been handled by users with sweaty hands.

To protect against rust, always dry the applicator after use and apply a thin layer of oil to the surface before storage. Elcometer recommends the use of an oil which does not harden during drying such as Castrol Rustilo DW 378.

Always store the applicator in the case provided.

5 MAINTENANCE

The Elcometer Sag Tester is designed to give many years reliable service under normal operating and storage conditions.

Regular calibration checks over the life of the thickness gauges are a requirement of quality management procedures e.g. ISO 9000 and other standards. For checks and certification contact Elcometer or your local supplier.

6 TECHNICAL SPECIFICATION

The Elcometer 4270 is manufactured in hardened stainless steel..

Medel	Film Thickness		Part number	
Model	(µm)	(mils)	Metric	Imperial
4270/1	75 to 300	3 to 12	K0004270M001	K0US4270M001
4270/2	25 to 150	1 to 6	K0004270M002	K0US4270M002
4270/3	350 to 1500	14 to 60	K0004270M203	K0US4270M203
4270/4	100 to 600	4 to 24	K0004270M204	K0US4270M204

Elcometer produces a wide range of coatings inspection gauges and related equipment.

Users of this Elcometer Sag Tester may also benefit from the following Elcometer products:

- Elcometer Fineness of Grind Gauges
- Elcometer Viscosity Meters
- Elcometer Motorised Film Applicators
- Elcometer Leneta Test Charts
- Elcometer Drying Time Recorders
- Elcometer Washability, Brushability and Abrasion Testers
- Elcometer Hardness Testers

For further information contact Elcometer, your local supplier or visit www.elcometer.com