

Adjustable Film Applicator

Thank you for purchasing an Adjustable Film Applicator from Ascott. Please read these instructions carefully and retain for future reference.

Important Information

This equipment should only be used as intended by suitably qualified and trained personnel.

These instructions should be always readily available to such personnel.

Normal common-sense safety precautions must be taken at all times to avoid the possibility of accidents. We recommend that users produce their own risk assessment for the entire testing process for which this equipment will be used.

1. About This Instrument

This Adjustable Film Applicator is a simple but effective instrument for applying a uniform and reproducible film of coating to a surface. It is suitable for manual application of thick layers of various products to solid and flat substrates.

It is recommended for application of products with a viscosity of greater than 2000cP. The Adjustable Film Applicator is for manual use only and is not recommended to be used with automatic film applicators.

1.1 Standards

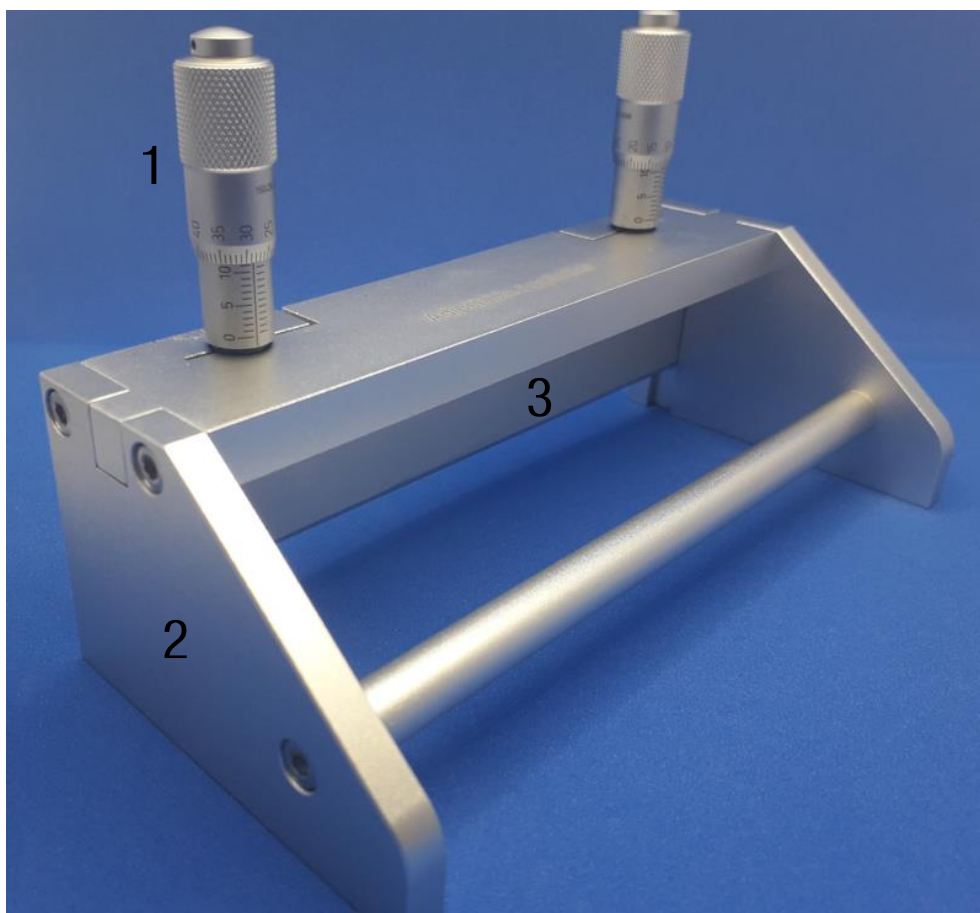
Your Film Applicator can be used in accordance with the following National and International Standards: ASTM D 823-E.

1.2 Contents

- Film Applicator
- Storage case
- Operating instructions

Your Film Applicator is packed in a cardboard and foam package. Please ensure that this packaging is disposed of in an environmentally sensitive manner. Consult your local Environmental Authority for further guidance.

2 Structure



1. **Microdrum:** Rotating the Microdrum adjusts the gap between the applicator blade and the panel
2. **Side Plate:** The side plates are held by the user during film application
3. **Application Blade:** Used to apply the film, the gap is adjustable

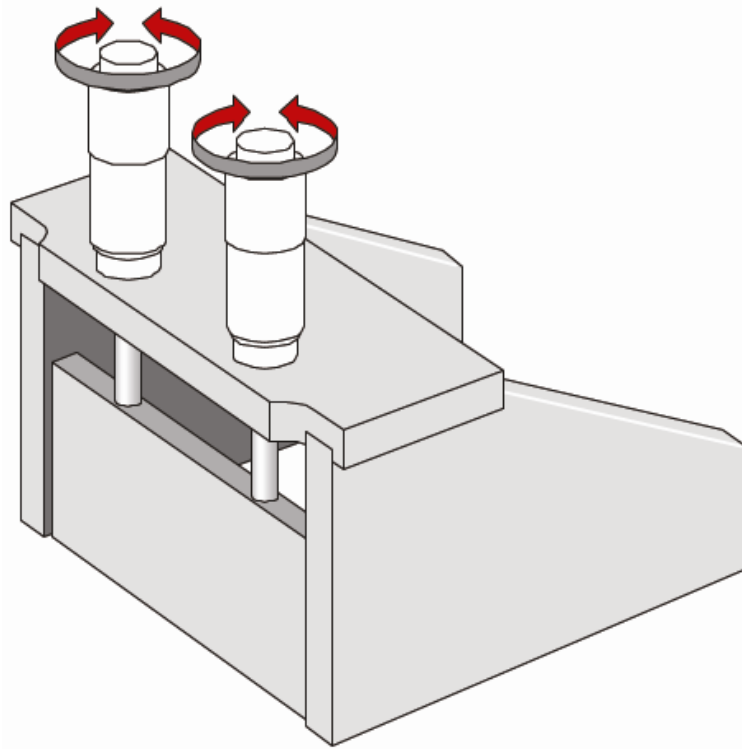
3. Setting the Blade Gap

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

3.1 Operation

1. Place the applicator on a flat surface.
2. Adjust the micrometer to '0' (zero).
3. Adjust the micrometer to the desired gap: Both micrometers should be set to the same value.
 - To obtain a gap of 50 μm (2 mils), set the micrometer to 0.05 mm.
 - To obtain a gap of 250 μm (10 mils), set the micrometer to 0.25 mm

Caution: Do not overtighten the micrometers



0 μm



50 μm



800 μm



1,300 μm

4. Application Procedure

1. Before each use, check the working surfaces for irregularities and damage.
2. Fix a clean substrate on a flat and horizontal base such as a vacuum table.
3. Place the applicator at one end of the substrate. The applicator should be positioned facing the direction of travel.
4. Pour the product to be applied onto the substrate between the sides of the applicator.
5. Spread the film by moving the applicator towards the opposite end of the substrate at a constant speed.
6. Lift the applicator from the substrate taking care to catch any product dripping from the applicator before it lands on the newly prepared film.

5. After Application

Clean your film applicator.

Do not use very aggressive solvents or wire brushes, metal scrapers, metal files or other metallic tools. After cleaning, ensure that all materials are removed and that the instrument is dry.

Use the case provided to store the instrument when it is not being used.

6. Wet Film Thickness

The thickness of the film produced by your applicator depends on many factors including:

- speed of film application
- applicator blade gap setting
- surface tension
- viscosity of the product.

7. Technical Specification

■ Precision : $\pm 10\mu\text{m}$

■ Range : 0-3,500 μm or 0-5,000 μm

■ Ordering information

T01-700076 Adjustable Applicator Blade width 50mm

T01-700077 Adjustable Applicator Blade width 100mm

T01-700748 Adjustable Applicator Blade width 150mm

T01-700749 Adjustable Applicator Blade width 200mm

8. Related Equipment

We produce a wide range of coatings inspection gauges and related equipment.

For further information contact us or visit www.ascottshop.com

If you have any queries regarding your new equipment, or require any additional accessories or consumables, please contact info@ascottshop.com or telephone +44 (0)1827 318040. If you wish to contact us by post, our full mailing address is 6-8 Gerard, Tamworth, Staffordshire, B79 7UW