TQC Cube Applicator

(AB3700, AB3701, AB3702, AB3703, AB3704, AB3705, AB3706, AB3707)

Product Description

TQC Cube applicator for applying a paint film with a uniform thickness. Each Cube Applicator can apply 2 pre-defined thicknesses, or 2 thicknesses to customer specifications. TQC Cube Applicators are ideal for applying paint on test panels used on for instance a drying time recorder.

Cube applicators are standard equipped with a guide plate. When used with a narrow glass panel (AB3602) this guide plate eliminates the need for a casterguide. The guide plate guarantees
straight draw downs on the narrow glass panel (AB3602). The guide plate is fixed with screws and can easily be removed.
Every Cube Applicator is made out of ASAB Stavax ESR medical grade stainless tool steel, which is sub zero vacuum hardened (+1756°C to -70°C), through hardened, hardness HRC 55.

*Through hardening versus Case-hardening or surface hardening.
Through-hardening means the metal uniformly is hardened throughout the piece. Case- or surface (face / frame) hardening only hardens the top layer of the metal. Once the top layer is degraded excessive wear and tear will occur on the product limiting its life time and affecting accuracy.

Features

- Two application sides
- Corrosie resistant
- Through-hardened medical steel, So very wear-resistant
- Removable guiding plate voor perfectly straight application
- Available in microns and mills
- Also available to customer's own specification
- Calibration Certificate included

Standards

ASTM D823

Scope of Supply

- Cube Applicator incl mounted guiding plate
- Calibration Certificate
- Protective plastic case

Specifications

Technical Data

Film Thickness:	See ordering information
Reservoir Ø:	15 mm / 0.59 inch
Dimensions:	25 x 24 x 24 mm / 0.98 x 0.94 x 0.94 inch
Weight:	65 g / 2.29 oz
Material:	ASAB Stavax ESR medical grade stainless tool steel. Sub Zero Vacuum hardened (+1756°C to -70°C), hardness HRC 55 (through hardened*)
Surface treatment:	Polished
Overall accuracy:	± 2 µm.

Ordering Information

AB3700	TQC Cube Applicator, gaps 38 & 76µm
AB3701	TQC Cube Applicator, gaps 50 & 100µm
AB3702	TQC Cube Applicator, gaps 75 & 150µm
AB3703	TQC Cube Applicator, gaps on request (µm)
AB3705	TQC Cube Applicator, gaps 1,5 & 3 mil
AB3706	TQC Cube Applicator, gaps 2 & 4 mil
AB3707	TQC Cube Applicator, gaps 3 & 6 mil
AB3708	TQC Cube Applicator, gaps on request (mil)

Optional Items

AB3602	Narrow glass beds 25 x 302 x 2 mm, set of 12

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Use

Select the appropriate gap and place the applicator on a plane smooth surface such as a glass bed. When used with the guidance plate attached, ensure that the guidance plate is placed against the long side of the glass bed. Apply a sample of paint in the centre of the TQC Cube applicator. Draw down the applicator with the evenest possible speed over the surface. The guidance plate has to stay in contact with the glass edge.The Cube Applicator is also suitable to be used with an Automatic Film Applicator.

Due to physical reasons the max. attainable wet film thickness is not equal to the gap depth. Deposited film thickness may vary from 40% to 80% of the clearance/gap depth. Dry film thickness will be lower than wet thickness due solvent/water evaporation.

Special Care

- Though robust in design, this instrument is precision-machined. Never drop it or knock it over
- Always clean the instrument after use.
- Only use non-corrosive solvents to clean the instrument. Use a soft, non-abrasive cloth to dry it.
- Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- When stored for a long period of time, wrap the instrument in oil paper
- We recommend annual certification

Disclaimer

The right of technical modifications is reserved.

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

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