

The first name in sample
preparation equipment



K CONTROL COATER & K PAINT APPLICATOR



Above: K control Coater model 202.
Below: K Control Coater model 101.



The K Control Coater is widely used for the application of paints, varnishes, adhesives, liquid printing inks and many other surface coatings to produce quick, accurate and repeatable samples. These may then be used for quality control and presentation purposes, R&D, computer colour matching data etc. These are elements vital to a company's success in the modern world.

MAIN FEATURES

- Controlled speed and pressure ensures repeatable results.
- Coating by wire wound bars or gap applicators.
- Two models offer coating areas of up to 170 x 250mm or 325 x 250mm.
- Multiple coatings in one operation for comparison purposes.
- Standard coating speeds infinitely variable between 2 and 15m/min.

The first name in sample preparation equipment

K CONTROL K PAINT APPLICATOR



The K Paint Applicator

Used for the application of paints to produce highly accurate and repeatable coatings in an instant. The machine uses gap applicators to coat onto paint test charts, steel panels and many other substrates. This may then be used for many applications including quality control – weather testing, opacity and other standard tests such as colour matching and customer presentation samples.

MAIN FEATURES

- A custom version of the K101 created especially for paints etc.
- May be used with most standard gap applicators including Bird, cube, 4 sided etc.
- ASTM D823 – 95(2001) – producing films of uniform thickness.
- Other coatings such as plastisols and adhesives may also be applied.

Gap Applicators

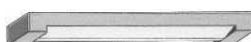
A range of adjustable or fixed gap applicators are available for use. These are widely used for higher viscosity or thixotropic materials and for high coat weights.

Micrometer Adjustable Applicator



This applicator incorporates an adjustable spreading blade using micrometers, to accurately set the substrate/blade gap from 0–10mm in 10 μ m increments, providing an extremely versatile tool. It gives a coating width of either 100mm or 200mm, and produces a wet film thickness of 50-80% of the gap setting.

Bird Applicator



Precision ground all over, these stainless steel applicators provide a coating width of 1–mm and are available with gap sizes of 25, 50, 75, 100, 150 or 200 μ m. The wet film thickness produced is 50-80% of the gap size.

Cube Film Applicator



This provides a coating width of 41mm, and is made of precision ground stainless steel. Each applicator is supplied with two gap sizes:– 50 and 100 μ m or 150 and 100 μ m. The wet film thickness is about 50% of the gap size.

4-Sided Applicator



This device enables the user to coat four separate film thicknesses with a single applicator. Providing a coating width of 60mm, the 4-sided applicator is supplied approximately equal to 50% of the gap size and providing a wet film thickness of half the gap size.

K Wedge Bar



An economical form of fixed gap applicator, produced by winding wire onto a stainless steel rod. Gaps between 50 and 1500 μ m are available in 50 μ m steps. The wet film thickness is approximately equal to half the gap size, and a coating width of 100mm or 200mm is produced.

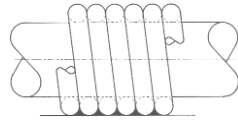
COATER



Meter Bar Coating

Meter bars provide the simplest method of applying accurate, repeatable surface coatings on to most substrates. A meter bar is manufactured by winding precision drawn stainless steel wire on to a stainless steel rod, resulting in a pattern of identically shaped grooves. These grooves then precisely control the wet film thickness. Close wound bars produce a coating thickness from 4 to 120µm. Higher coating weights up to 500µm can be obtained using spirally wound bars. A three-part melinex/foam/rubber coating bed is supplied as standard. Vacuum, magnetic, heated and glass beds are also available, as detailed on the back page.

Standard K101 and K202 Meter Bars



Close Wound

BAR No.	COLOUR CODE	WIRE DIAMETER		WET FILM DEPOSIT	
		Inch	mm	Inch	µM
0	White	0.002	0.05	0.00015	4
1	Yellow	0.003	0.08	0.00025	6
2	Red	0.006	0.15	0.0005	12
3	Green	0.012	0.31	0.0010	24
4	Black	0.020	0.51	0.0015	40
5	Horn	0.025	0.64	0.0020	50
6	Orange	0.030	0.76	0.0025	60
7	Brown	0.040	1.00	0.0030	80
8	Blue	0.050	1.27	0.0040	100
9	Tan	0.060	1.50	0.0050	120



Spirally Wound

BAR No.	WIRE DIAMETER		WET FILM DEPOSIT	
	Inch	mm	Inch	µM
150	0.010	0.25	0.006	150
200	0.014	0.36	0.008	200
300	0.020	0.51	0.012	300
400	0.030	0.76	0.016	400
500	0.040	1.00	0.020	500

Special bars to apply intermediate wet film deposits are manufactured to customer requirements. We stock wire diameters giving the choice of the following deposits (microns) when close wound. 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 76, 80, 84, 88, 90, 92, 96, 100, 104, 108, 110, 112, 116, 120, 128, 130, 140, 150. We also manufacture both wired metering bars and plain smoothing bars to fit all laboratory and production width coaters.

Coating Area

All dimensions are in mm.	MODEL NO.	
	101	202
MAXIMUM COATING AREA WHEN USING:--		
METER BAR COATING WITH STANDARD (THREE-PART) BED	170 x 250	325 x 250
METER BAR COATING WITH GLASS BED	170 x 250	325 x 250
METER BAR COATING WITH VACUUM BED TYPE A	140 x 250	290 x 250
METER BAR COATING WITH VACUUM BED TYPE B	150 x 250	300 x 250
METER BAR COATING WITH MAGNETIC BED	150 x 250	300 x 250
METER BAR COATING WITH HEATED BED	170 x 250	325 x 250
MICROMETER ADJUSTABLE APPLICATOR	100 X 250	200 X 250
BIRD APPLICATOR	100 X 250	100 X 250
CUBE FILM APPLICATOR	41 X 250	41 X 250
4-SIDED APPLICATOR	60 X 250	60 X 250
K WEDGE BAR	100 X 250	200 X 250

The first name in sample preparation equipment



Special Purpose Coating Beds

Specialised coating beds are available to ensure the best possible results for particular applications. Each is suggested for different types of substrate.

SPECIFICATION

	K101	K202
Weight	27kg	30kg
Footprint	All 400 x 450mm	
Drives	All available with electrical drive of 110/220 volts or with a pneumatic drive suitable for hazardous areas.	

Vacuum Beds

Type A

Recommended when coating on to a delicate or stretchy substance such as aluminium foil or polythene. This is a rubber faced bed connected to a vacuum pump which holds the material perfectly flat. Vacuum is applied from the edges of the substrate only.

Type B

A smooth aluminium faced bed with vacuum applied via multiple holes over the entire substrate surface. This is suitable for more rigid substances, and especially recommended when coating on to paint charts with gap applicators.

Magnetic Bed

For use when coating on to a magnetic substrate such as tin plate, to ensure a totally flat surface. Permanent magnets are used, which are operated by an on/off key.

Heated Bed

Specialised for applying coatings which require heating. Examples include hot melts and electrographic inks. The bed has a smooth aluminium face which can be heated up to 150 degrees and is set by a digital temperature controller.

Glass Bed

This provides a perfectly flat surface which is very easily cleaned. It is especially recommended for gap applicators which provide a hard surface.



RK PrintCoat Instruments Ltd.,

Litlington, Royston, Herts SG8 0QZ United Kingdom

Tel: +44 (0)1763 852187 Fax: +44 (0)1763 852502

E-mail: sales@rkprint.com

www.rkprint.com