

## PAINTS & COATINGS

The minimum film-forming temperature (MFFT) of a paint or coating is the lowest temperature at which it will uniformly coalesce when laid on a substrate as a thin film. The standard test for determining this temperature involves using a MFFT-BAR, as specified by such standards as ASTM D 2354 and ISO 2115. The design of the Rhopoint instrument is based directly on these standards.

## ADHESIVES

The MFFT of one-pack adhesives can be found in a similar way to paints and coatings. With two-pack adhesives, a strip of aluminium foil can be laid on the platen, to ease cleaning, before applying the adhesive. Two-pack adhesives do not show an MFFT, but the minimum cure temperature can be found by scraping the sample with a spatula.

## DESIGN

The Rhopoint MFFT bar is a complete system, and the purchase of additional accessories for casting films, low temperatures, etc. is NOT required. The temperature bar consists of a copper platen with an electronically imposed temperature gradient. Ten equispaced sensors beneath the surface provide instantaneous temperature measurement along the bar. If required, a roving probe is available which allows direct readings at any point. Purge gas is integrally dried, and flows over the platen via a sintered distribution block. The hinged perspex cover provides thermal and atmospheric insulation whilst allowing constant visual inspection of an experiment. A cursor simplifies location of the exact temperature of result.

## RUNNING

The desired temperature program is selected and the instrument allowed to reach thermal equilibrium. Tracks of wet test material are applied using a cube applicator, or spreader. Once the material has dried or cured the result is visually apparent.

LOCAL AGENT

## STANDARD FEATURES

Standard model (MFFT-60) has six temperature programs:

Program	1	2	3	4	5	6
Cool end (°C)	-5	0	5	15	23	33
Warm end (°C)	13	18	23	33	50	60

Nickel plated copper platen.  
75µm 0.003" cube applicator.

## OPTIONS

Additional three temperature programs on extended range model (MFFT-90):

Program	7	8	9	Grooved platen (eg for DIN 53787).
Cool end (°C)	43	53	63	
Warm end (°C)	70	80	90	

## SPECIFICATIONS

<b>Dimensions</b>	(L x W x H) 550 x 610 x 350mm
<b>Platen dimensions</b>	(L x W) 483 x 235mm
<b>Conforms to</b>	ASTM D 2354, ISO 2115, DIN 53787 (by request)
<b>Weight</b>	38kg
<b>Mains</b>	110-120V AC or 220-240V AC
<b>Air</b>	4 l min <sup>-1</sup> @ 100 psig
<b>Water</b>	Mains pressure; gravity drain inlet temperature < 20°C

## ORDERING

Rhopoint is the world's leading manufacturer of MFFT Bar. With legal and environmental emphasis shifting heavily away from VOC based materials towards water-borne counterparts, this is an essential instrument for the modern paints, coatings or adhesives industry.

Application Notes and video demonstrating the use of the MFFT Bar are available, free, on request.

To order, or for further information, please contact:



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