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RHOPOINT
MFFT - 90

**Minimum Film Forming
Temperature Bar**

- Paints and Coatings
- Adhesives

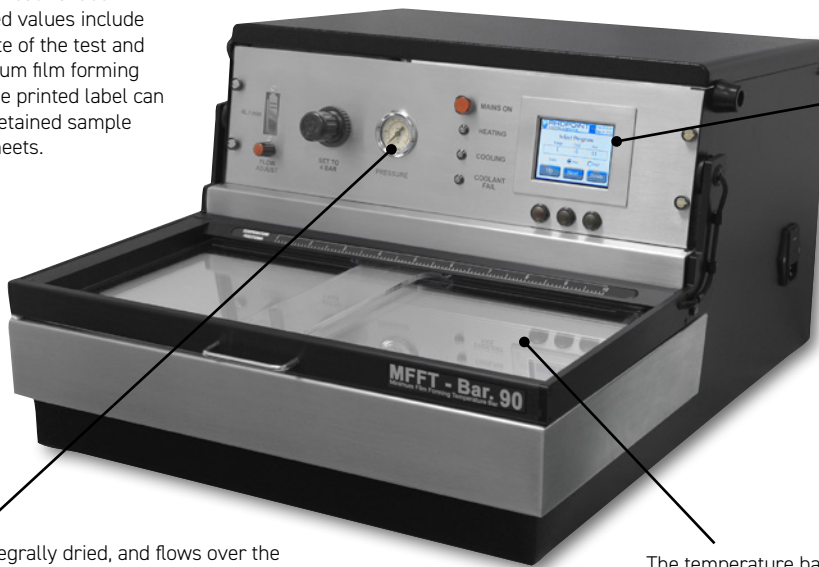
Minimum Film Forming MFFT Temperature Bar

Ensures your paint and coatings perform correctly.

The Rhopoint Minimum Film Forming Temperature Bar (MFFT) is used to determine the minimum film forming temperature and white point in paint and coatings such as water base coatings, polymer dispersions, synthetic latexes and emulsion.

The MFFT also tests adhesives temperature optimisation in such areas as coalescence of water-borne adhesives and minimum temperature for epoxy resin cure.

The instrument can be supplied with an optional results label printer. Recorded values include the time and date of the test and identified minimum film forming temperature. The printed label can be attached to retained sample bottles or job sheets.



The new MFFT benefits from an easy to use touch screen interface, digital MFFT temperature calculation and output to handy results labels. These additions to the trusted Rhopoint MFFT make the instrument easier to operate with improved certainty of results.

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 a test. A cursor is moved to indicate the identified MFFT point; the instrument calculates and displays the temperature in the required units.

The temperature bar consists of a copper platen with an electronically imposed temperature gradient. Built in temperature sensors monitor the temperature across the platen, a graph of the gradient is displayed on the touch screen.



Resins



Adhesives



Paints

Features



Paints & coatings

The minimum film forming temperature 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 an MFFT, 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.

Running

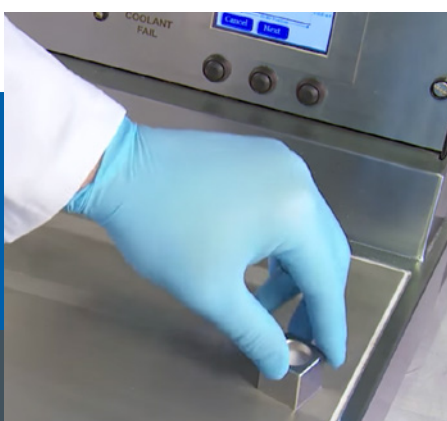
The desired temperature program is selected and the instrument allowed to reach thermal equilibrium. Tracks of wet test material are applied using a cube applicator, or spreader.

Once the material has dried or cured the result is visually apparent.

Standard features

Standard model (MFFT-90) has ten temperature programs:

Program	0	1	2	3	4	5	6	7	8	9
Cool end (°F)	14	23	32	41	59	73	91	110	127	145
Warm end (°F)	45	55	64	73	91	122	140	158	176	194



Specifications

Conforms to	ASTM D 2354, ISO 2115
Platen dimensions	483mm × 235mm (L × W)
Air	4 l min ⁻¹ @ 100 psig
Water	Mains pressure; gravity drain inlet temperature <15°C
Mains	110–120V AC or 220–240V AC
Order code	MFFT, -10°C to 90°C 230V - A1212-002 MFFT, -10°C to 90°C 115V - A1212-002/115
Dimensions	350mm × 550mm × 610mm (H × W × D)
Weight	38kg
Packed weight	53.7kg
Packed dimensions	590mm × 800mm × 690mm (H × W × D)
Commodity code	9027 8017

Accessories

Included	<ul style="list-style-type: none"> • Water connectors • Air connector • Spare silica gel • Manual • 75µm (0.003") cube applicator
Optional	<ul style="list-style-type: none"> • Chiller - Required when the temperature of the water supply to the instrument is >20°C higher than the target temperature at the cold end of the selected range. e.g. Range 0, -10°C requires a water supply of no higher than 10°C. If this cannot be supplied then the chiller is required • Label printer
Extras	<ul style="list-style-type: none"> • Free extended warranty service Fast and economic service via our global network of accredited service centres, please visit www.rhopointinstruments.com/support for detailed information



Label printer



Chiller

