RHOPOINT
INSTRUMENTS

www.rhopointinstruments.com

VISCOMIXER

RHOPOINT
PAINTLAB+

- Fully automated
- Easy clean design
- User certifiable

Rhopoint Instruments Limited
is a member of the
Rhopoint Group

RHOPOINT

PAINTLAB+

Viscosity measurement of coatings is essential at each stage of the manufacturing process to ensure consistent quality standards.

Many parameters can affect the rheological behaviour of a finished coating resulting in undesirable effects such as inconsistent performance, poor levelling or sagging. The use of high precision measuring instruments is therefore essential in quality control to prevent such problems occurring during formulation, manufacture and application.

The *Paintlab+* Viscomixer is a versatile instrument used to measure the change in viscosity during the addition of a solvent or thinner.

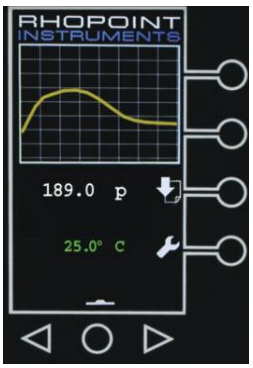
Three Viscomixer models are available each offering a different measuring range according to the viscosity of the test sample.

A sample from a production batch can be quickly and easily measured in a 250ml tin and the required thinning ratio determined for scaling into the production process.

The instrument operates at a fixed speed of 562rpm to directly measure the viscosity in Poise (P).

FEATURES

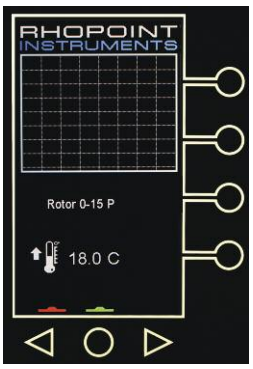
Precise measurement



High stability motor speed control ensures accuracy and repeatabilty during each test. Real-time high resolution graphing allows monitoring of changes during measurement providing identification of inconsistencies between samples. Measurement results are displayed instantly on screen after tests.

Advanced temperature monitoring

An integrated temperature probe accurately measures and records sample temperature for each test. As sample viscosity is influenced by test temperature, accurate monitoring and recording ensures reliability of test results.



Automatic operation

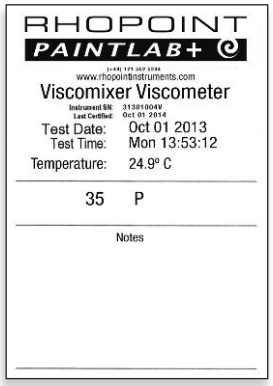
Fully automated operation saves time by accurately lowering the rotor into the sample to the correct height. Once the test has completed the rotor automatically raises to drain off, saving time during cleaning.

The easy to use quick release magnetic rotor holder allows rapid removal for cleaning after use.

Easy clean design

Lab-tough glass allows easy removal and cleaning of unintentional splashes and smears from the capacitive sense buttons and screen. The solvent resistant anodised aluminium instrument chassis ensures the instrument can be cleaned and restored to pristine condition even in the toughest working environments.

Data transfer



Measurement data including time, date and test temperature can be printed to a Rhopoint label printer (supplied as an optional accessory). Printed labels can be attached to each sample for easy identification and recording of results.

Flexible range configuration

The viscomixer can be configured to use multiple ranges by purchasing additional rotor kits. User selectable ranges with calibration profiles for each rotor.

Calibration

Annual calibration can be performed remotely by the user with the Rhopoint certified recalibration kit. Step by step instructions and automatic verification ensure accurate, traceable results.

TEST TYPES

Run to stable:
Tests for shear thinning or shear thickening to determine the time it takes to reach a constant value. User-defined test time and stability time, result given in Poise at the end of the test.

Run to change:
Tests for the modulus point (change in viscosity) in the sample. User-defined test time and percentage change, result given in Poise at the end of the test when percentage change is reached

Run to greater than value: Tests for shear thickening. User selectable test time. During this time instrument will look for an increase in reading to target value viscosity reading. This target reading is user selectable. Result is in Poise at the end of the test.

Run to less than value: Tests for shear thinning. User selectable test time. During this time instrument will look for an decrease in reading to target value viscosity reading. This target reading is user selectable. Result is in Poise at the end of the test.

Run to set time: User defined test time, results in Poise at the end of the test.

APPLICATIONS

Paints and coatings

Inks

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INSTRUMENT SPECIFICATION

STANDARDS	BS EN ISO 2884-2:2006, BS 3900-A7-2:2003
RANGE	0.1 - 15 P 0.1 - 65 P 1.0 - 340 P*
RESOLUTION	0.1 P (*1.0 P)
ACCURACY	+/- 2%
REPRODUCIBILITY	+/- 1%
REPEATABILITY	+/- 1%
SPEED	562 rpm +/- 0.1%
CONTAINER SIZE	250ml
OPERATING TEMPERATURE	15°C to 35°C
POWER	90-240V AC - 50/60 Hz
WEIGHT	7.25 kg
SIZE	(H) 460 x (W) 320 x (D) 190 mm
PACKED WEIGHT	10 kg
PACKED DIMENSIONS	(H) 680 x (W) 460 x (D) 380mm
COMMODITY CODE	9027 8017

OPTIONAL ACCESSORIES

- Results printer
- Data transfer cable

Certified recalibration kit containing:

- 3 x traceable viscosity oils
- USB calibration card
- Recalibration certificate

INCLUDED ACCESSORIES

- Viscomixer rotor
- Temperature verification probe
- Traceable calibration certificate

ORDERING CODES

Viscometer	Order code
0-15 P	RL-A30-VISCOMIXER/0-15P
0-65 P	RL-A30-VISCOMIXER/0-65P
1-340 P	RL-A30-VISCOMIXER/1-340P
Contains 1 viscometer and 1 rotor	

Additional rotor kit	Order code
0-15 P	RL-B30-ROTORKIT/0-15P
0-65 P	RL-B30-ROTORKIT/0-65P
1-340 P	RL-B30-ROTORKIT/1-340P
Contains 1 rotor, 1 USB calibration card and 3 oils	

Recalibration kit	Order code
0-15 P	RL-B30-OILKIT/0-15P
0-65 P	RL-B30-OILKIT/0-65P
1-340 P	RL-B30-OILKIT/1-340P
Contains: 1 USB calibration card and 3 oils	

BCF Associate
BRITISH COATINGS FEDERATION

Certificate no: FS 695372
ISO 9001:2015

PAINT RESEARCH ASSOCIATION MEMBER

LOCAL AGENT

00339/05/16

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