

Optimize your production process with RheoStream®
- a process rheometer that offers real-time viscosity measurements.



PAINTS & COATINGS

Achieve precise viscosity from the outset. Boost efficiency and maximize yield.



CHALLENGE

Paints and coatings undergo viscosity checks post-mixing. Non-compliance to specifications causes new adjustments, re-mixing and re-checking.

Manual rotational viscometers are used off-line, offering accuracy and versatility, but are susceptible to human error and sample preparation variations.

This process consumes time and resources and does not enable automation of viscosity control.

SOLUTION

On-line Instrument - RheoStream® is fully automatic and integrates seamlessly into production lines, measuring without interrupting the manufacturing process

Real-Time Monitoring - (2 minutes per sample and viscosity is displayed at 3 selected shear rates) enables precise and instant adjustments to reach the target viscosity level every time and across different batches.

High Accuracy and Precision across product categories thereby eliminating variations through reliable, persistent results.

BENEFITS

Real-Time Quality Control - any deviation in viscosity can be immediately detected, allowing for swift adjustments to ensure quality compliance.

Save Time and Rework - optimize the production flow by reducing resources for off-line analysis and gain increased efficiency and cost saving.

Product Performance - viscosity affects the application ease, leveling, sag resistance, and storage stability. Get it right first time, every time.

APPLICATION EXAMPLE

4 different paints were measured with RheoStream at 4 shear rates ranging from 2 to 1000 s⁻¹. Pre-set, constant temperature of 23 °C. Viscosities were obtained every 2 minutes.

10 measurements were performed in each point (shown as circles in the Application range plot, right), with great precision, better than 2%.

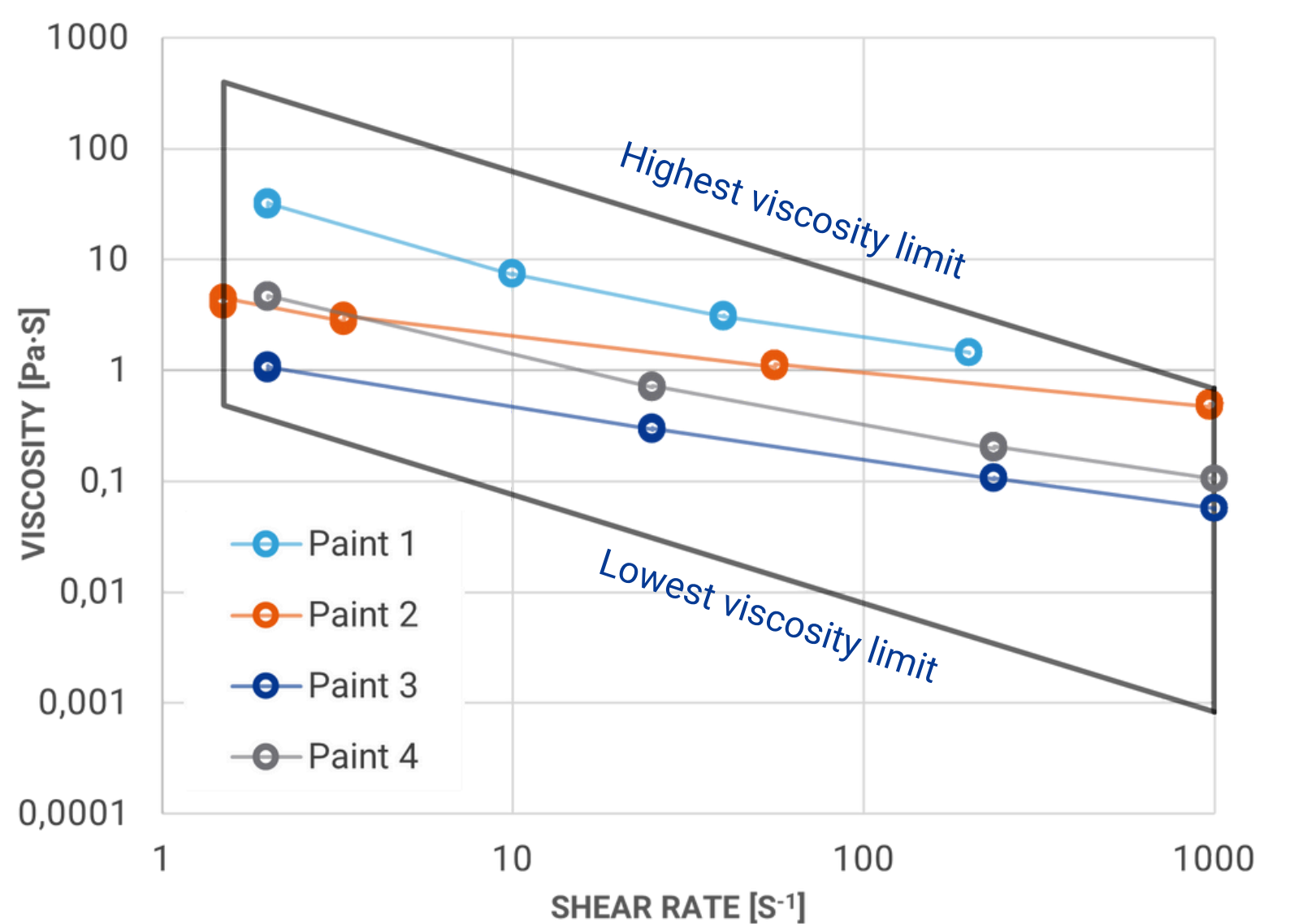
Cleaning is done automatically between different products with either water or other cleaning agent or solvent (400 ml).

RheoStream®FCX

RheoStream is also available for application in the production of solvent products, certified for ATEX Zone 1



RheoStream® Application Range



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