

RHEOCAD 500: HIGH PERFORMANCE MORTAR/CONCRETE RHEOMETER

CEMENT, MORTAR AND FRESH CONCRETE RHEOLOGY

It is well accepted that concretes having the same Slump test can show a large variation of viscosity. Complete characterization of complex fluids can be achieved with the new RheoCAD thanks to a mechanical computer-controlled device and calibration to obtain stress and strain rate with absolute units. The **RheoCAD 500** offers the best performances of sensitivity with a wide shear rate range for measurement of a broad variety of fluid and slurries.



Software

The **RheoCAD 500** measures Torque vs. Speed with multiple programming possibilities to obtain the best rheograms:

- > Steps programming
- > Linear ramp
- > Logarithmic ramp
- > Manual operating
- > Database storage with direct data export to Excel

Features and Benefits

- > High sensitivity torque meter with a dynamic range
- > Impeller speed controlled from 0.001 rpm to 250 rpm
- > Custom-made bowls and impellers upon request
- > A drive unit control system can be programmed for your particular application
- > Complete control of the unit via PC using USB interface for Windows XP, Vista and Seven

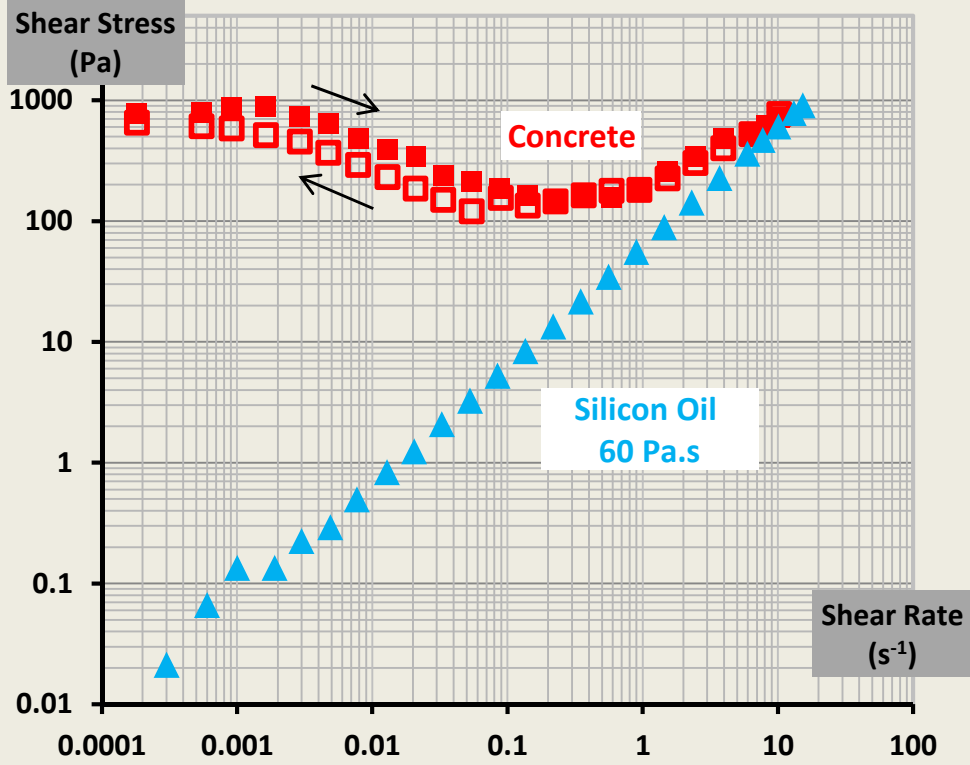
Specifications

| | | |
|------------------|---------------------------------------|-----|
| > Impeller speed | 0.001 – 250 ± 0.001 | rpm |
| > Torque meter | 0.0001 – 10 ± 0.0001 | N.m |
| > Sample Volume | 11 – 37 | L |
| > Dimensions | 600 mm x 700 mm x 1200 mm (W x D x H) | |
| > Weight | 95 | kg |

Safety

- > Front face emergency button
- > Security and bowl down stroke protection
- > Complies with CE regulation. Safety light curtains can be optionally supplied

RHEOCAD 500: HIGH PERFORMANCE MORTAR/CONCRETE RHEOMETER



- > Couette Analogy
- > Easy calibration using silicon oil
- > Wide shear rate range
- > High sensitivity
 - Yield stress
 - Thixotropy
 - Restructuration
- > Imposed torque or speed
- > Post-treatment data available

OPTIONAL ACCESSORIES

CAD Instruments offers a wide range of accessories to help you take advantage of this new measurement device. Bowls and mobile s are stainless steel with custom-made conception.

Bowls

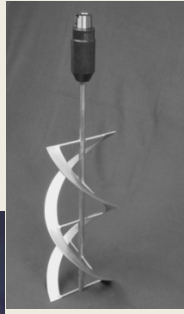
- > Ø = 200, 270, 300 or 400 mm
- > Amovable anti-slipping cage
- > Double-wall thermostating

Mobile Geometry

- > Vane
- > Double helical
- > Cylinder
- > Anchor

All-in one cabinet

- > Cabinet with PC support arm, and safety light curtain



*Note: These specifications may change in the interest of product development
The RheoCAD was designed by CAD Instruments in cooperation with major cement manufacturers.*

