



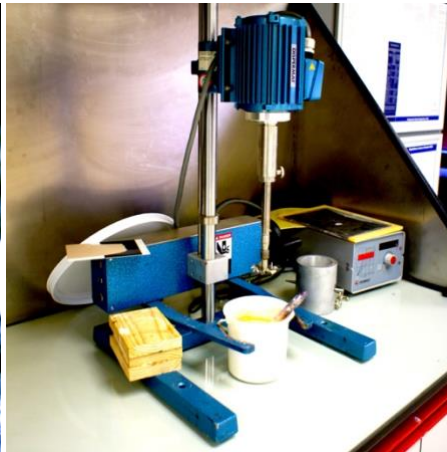
May-2018

SERVOCHEM LABORATORY

INTRODUCTION TO THE SERVOCHEM LABORATORY IN JOHANNESBURG.

The Servochem Laboratory is located on-site in Johannesburg and has been well equipped to handle the many relevant tests that our customers and suppliers benefit from on a daily basis.

We have a full-time team working in the laboratory, where we offer product testing, product training and product development. We are constantly working with our suppliers to identify product placement opportunities within the market, where we are able to often assist customers with improving quality and reducing cost.



TESTING METHODS

- Colour testing using the CIELAB colour space method
- Paint Sample Production:
 - HSD for making/preparing paint samples
 - Our Dispermat laboratory mixer has a speed range of 0-20,000rpm and is capable of making product volumes of 0.05L to 3L
- Accelerated Weathering



○ The QUV is a 48 standard size specimen holder that is capable of producing the damage caused by sunlight, rain and dew. Within a few days or weeks, we can reproduce the damage that occurs over months or years in South Africa.

- Water Content
 - Using the Karl Fischer Titration process, we are able to determine the trace amounts of water in a sample.
- Corrosion Testing
 - Using a salt fog within a testing cabinet we are able to accelerate the conditions to replicate the natural corrosive environment attack.



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- Coatings Testing
 - We are able to conduct multiple, routine tests to analyse appearance, wetness and physical properties.
- Appearance tests
 - Gloss and gloss retention using a gloss meter
 - Hiding power and contrast ratio using a hiding and opacity meter
 - Dry film observation using a microscope and magnifying glass
- Wet Tests
 - Density using the normal S.G. cup
- Solids – content by weight, typically tested on emulsions and floor polishes
- Fineness of grind using a precision grind gage to determine particle size and dispersion
- Accelerated stability – by ageing the finished product in the oven while monitoring viscosity and visual appearance of the aged sample
- pH testing from pH 1-14
- Viscosity readings using the Krebs Stormer Viscometer
- Wet film thickness using the wet film comb and the wet film gauge, measurable from 25um to 2000um.
- Physical properties
 - Dust and dirt retention
 - Abrasive scrub test using a wet abrasion scrub tester to determine the resistance of a film to erosion caused by wet, abrasive mixtures
 - Stain testing – the ease of removal of both hydrophobic (wax-crayon) and hydrophilic (tea) stains
 - Dry film thickness – accurately obtained using the Elcometer dry film thickness gauge



If you would like to find out more about our lab, tests and training days please contact your account manager or submit an enquiry [online](#).

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