



Technical Service Center
Coatings

KRAHN

Your high-performance partner for specialty chemicals.

We are a leading independent chemical business providing sales, marketing and distribution services and are recognized world-wide for our technical expertise and high-quality product portfolio as well as in-house laboratory support. Everything we do is with passion and commitment and always with an eye on the best possible outcome.



Comprehensive Service

Technical Service Center

KRAHN Chemie offers a wide range of tests of paints and coatings in its own European laboratories. Our service portfolio ranges from application tests and analytical studies, via product development and optimization of formulations, to the creation of complete colorimetric systems including setup of calibration database and color matching.

We assist our customers from commercial support and technical assistance up to laboratory services conducted by experienced employees and excellent laboratory equipment. We would be pleased to carry out tests for you according to standard or customized test methods. We provide a great number of application methods and substrates.

Don't hesitate to contact us!



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Laboratory Service Overview

Development

- Development and testing of guiding formulations
- Recommendation and testing of raw materials to optimize formulations

Colorimetry

Creation of tinting systems

- Test and optimization of compatibility of base paint with pigment concentrates
- Calibration mixtures (base paint + pigment concentrate), application and measurement
- Development of color shade formulations (opaque and translucent)
- Software based calculation of color shade formulations
- Colorimetry and software training

Evaluation of film properties

- Adhesion (DIN 53151)
- Gloss (glossmeter with 3 angles: 20°, 60° and 85°)
- Film thickness (dry and wet thickness)
- Cupping test according to Erichsen (DIN 53 156)
- Wet abrasion and washing resistance
- Water absorption (W24 value)
- Water vapor diffusion (sd value)
- Film hardness (Shore D, König hardness)
- Scratch resistance (Dur-O-test)
- Chemical resistance (sucking material or immersion)



Chemical Analysis / QC

- Density (density cup)
- pH-value
- Electrical conductivity (liquid state)
- Rheology profile
- Rotational viscometer
- Viscosity (flow cups)
- Particle size (laser diffraction)
- Grind fineness (Grindometer)
- Hiding power (contrast ratio)
- Storage stability
- Solid content
- Sieve residue
- Oily absorption value
- Colorimetry (color space, whiteness, color strength)
- Microbiological analysis

Test of wet material

- Anti-sag resistance
- Wetting properties
- Surface properties
- Drying properties
- Foaming tendency
- Rheology profile (low, medium, high shear)

Corrosion test

- Salt-spray test
- Condensed water test (constant climate)

Xenontest

- Evaluation of light fastness

**Bring it
together!**



KRAHN Chemie brings together all the elements designed to create strong added value: markets with innovations, processors with producers and questions with answers.

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