KRAHN CHEMIE –
TECHNICAL
SERVICE CENTER

KRAHN Chemie laboratories in Bottrop (Germany) and Poznań (Poland) offer you a wide range of tests of paints and coatings.

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

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)

COLORIMETRY
Creation of tinting systems
- Test and optimization of compatibility of base paint with pigment concentrates
- Setup of calibration database: calibration mixtures (base paint + pigment concentrate), application and measurement
- Color matching: development of color shade formulations (opaque and translucent)
- Color matching: software based calculation of color shade formulations
- Training: colorimetry and software training

LABORATORY SERVICE OVERVIEW
TEST OF WET MATERIAL
- Anti-sag resistance
- Wetting properties
- Surface properties
- Drying properties
- Foaming tendency
- Rheology profile (low, medium, high shear)

CHEMICAL ANALYSIS / QC
- Density (density cup)
- pH-value
- Electrical conductivity (liquid state)
- Viscosity
- Rotational viscometer
- 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)

XENON TEST
- Evaluation of light fastness
WELCOME TO KRAHN CHEMIE. As an independent chemical distributor and sales partner to leading producers, we know that some things are simply better together. That’s why we connect markets with innovations, processors with producers and questions with solutions.

At KRAHN Chemie, you can find everything that a processor in the chemical industry values: a broad range of products from top international producers, competent technical support, laboratory services and logistic solutions. We share your high standards in terms of speed, flexibility and quality – and have proudly served as your strong and reliable partner for more than 100 years.

We look forward to assisting and advising you.

COMPREHENSIVE SERVICE

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!