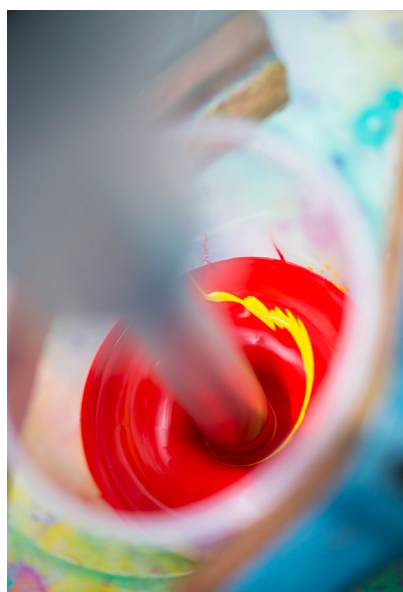


# Technical Service Center **Coatings**



# Your high-performance partner for specialty chemicals.

As an independent chemical distributor and sales and distribution partner to leading producers, we also bring together everything that processors in the chemical industry value: an extensive and high-quality product range, technical services as well as in-house laboratory support. We are committed to what we do with always an eye on the best solution.



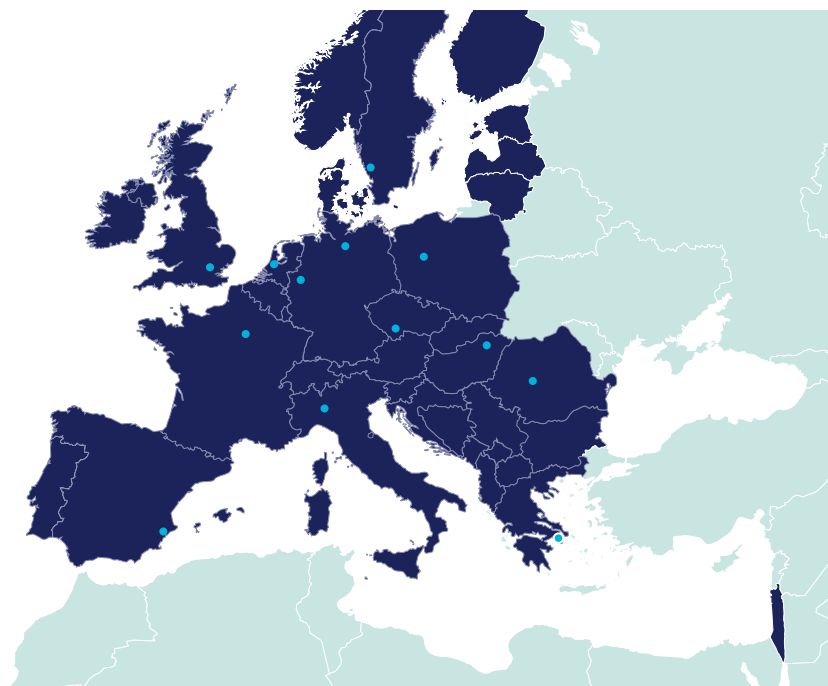
## Comprehensive Service

### Technical Service Center

KRAHN Chemie laboratories in Bottrop (Germany), Poznań (Poland) and Milan (Italy) 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.

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

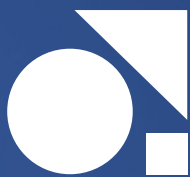
## Test of wet material

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

## Xenontest

- Evaluation of light fastness

**Bring it  
together!**



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

**[www.krahn.eu](http://www.krahn.eu)**

