

# Varnishes



**INNOVENT**

Technology Development

Research Department:  
Primer and Chemical  
Surface Treatment

- corrosion protection
- value preservation
- decorative function
- technical function
- industry
- building trade
- transport sector
- mechanical engineering
- metals
- synthetics
- concrete

Varnish coating is an elegant method to change the appearance of surfaces, to protect them against environmental impacts or give them special functionalities.

Such certain functions are, e. g., electrical or thermal conductivity, shielding of electromagnetic fields, dirt-repellent behavior or high abrasion resistance and stability.

In addition to coating systems, our application-oriented development and optimization of varnish systems includes the cleaning and activation of the substrates as well as the selection, formulation and modification of adhesion promoters.

The necessary techniques and methods for the meaningful characterization of materials and coatings are available.

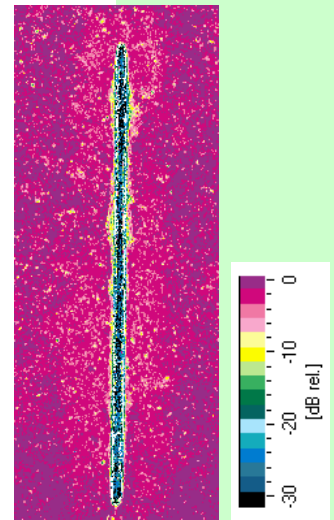
high frequency (HF) ultrasound (US) for corrosion evaluation



epoxy coating  
800 h SST



standard evaluation  
of corrosion,  
delamination



US-C image:  
weakening of the amplitude  
→ corrosion, delamination

## Our range of services:

- scientific advice and feasibility studies for the choice of adapted pretreatment and varnishes
- development, modification and optimization of varnish formulations and pretreatment processes
- stress tests, characterization of coatings & materials (*i. a.* thickness, gloss/shine, color, chemical resistance, salt spraying (SST), Xeno-/UV-test, climate, thermal shock)
- non-invasive HF-ultrasonic investigations for detection of damage



thermal shock chamber

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