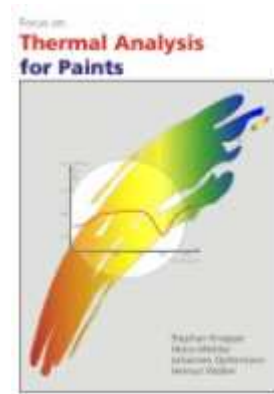


## Applications Volume

Focus on:

### Thermal Analysis for Paints

Editors: S. Knappe, H. Möhler, J. Opfermann, H. Walter



Is the paint already cured? How many and which solvents are still contained in the paint? Which emissions occur in the applied temperature range? Why can the paint be applied better by the competitor? Why does the painted part break?

Such different questions must frequently be answered for the development of paints. Conventional tests are often only single-point measurements and therefore not sufficient. In order to better understand the most complex influences, more comprehensive analyses are highly demanded.

The proven thermoanalytical methods in polymer technology according to DIN 51005 or ASTM E 472 offer an excellent tool. The NETZSCH applications volume Focus on Thermal Analysis for Paints was released in cooperation with the University of Applied Sciences Würzburg-Schweinfurt, Department of Plastics and Rubber Engineering, featuring the wide range of application with practical examples from industry. With the help of DMA (Dynamic Mechanical Analysis) investigations of clear and soft coats as well as paint structures are presented. Solvents and decomposition products of hydro clear coats and soft coats are identified by using TG-FTIR (Thermogravimetry with Fourier Transform Infrared Spectroscopy).

Main emphasis was put on describing the curing behavior of powder paints by means of DSC (Differential Scanning Calorimetry). These results were kinetically analyzed and simulated, together with rheometer measurements, with the new software package ChemRheo® regarding practice-related temperature profiles. This will not only support developers and users in the field of paints, but will also give them new ideas for their daily work.

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