

Thermal Analysis for Paints

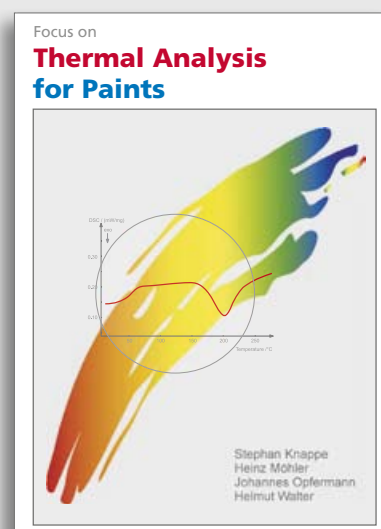
Focus on

Application Volume

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 questions as these 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 in great demand.

The proven thermoanalytical methods in polymer technology in accordance with DIN 51005 or ASTM E 472 are an excellent tool. The NETZSCH applications volume "Focus on: Thermal Analysis for Paints" was released in cooperation with the Department of Plastics and Rubber Engineering of the Würzburg-Schweinfurt University of Applied Sciences and features a wide range of applications 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 coatings and soft coatings are identified using TG-FTIR (Thermogravimetry with Fourier Transform Infrared Spectroscopy). Description of the curing behavior of powder paints by means of DSC (Differential Scanning Calorimetry) is emphasized. These results are analyzed kinetically and simulated along with rheometer measurements, with respect to practice-relevant temperature profiles. Paint developers and users will find not only assistance but also additional suggestions for their application areas.



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