Product Presentation

Title of the lecture:

Recycling of coated automotive parts

Subject classification:

- Coating raw materials
- Printing ink raw materials
- Adhesive raw materials
- Intermediates for construction chemicals
- Laboratory and production equipment
- Testing and measuring equipment
- Application
- Environmental protection and safety at work
- Services

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Abstract (please in 1nglish language only

Covestro is ambitiously targeting a fully circular economy by 2050, aiming for climate neutrality in Scope 1 and 2 emissions by 2035, and Scope 3 by 2050. To achieve this, the company is reducing fossil-based carbon usage, incorporating alternative raw materials, and focusing on product recycling. One possible way of closing the loop comprises recycling of final products and (re-)usage of their recycled material as feedstock. With over 20 ongoing research projects, Covestro is exploring various recycling methods. While mechanical recycling is often preferred, it presents challenges for certain composite materials, such as coated automotive parts. To address this, Covestro is exploring alternative recycling methods, including thermal and chemical processes. This presentations shows feasibility studies on chemolysis and pyrolysis for recycling of coated automotive plastic parts. The studies show promising results, with coatings hang minimal impact on these processes.