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F.Delbecque is head of labs & application center in France, Spain & Germany in charge to develop paint for major OEM (Renault Nissan Stellantis JLR…)

Chemist & Engineer in materials science, more than 25 years in automotive industry in different position as paint line manager or project leader but always linked to paint product & process.
Now I'm in charge of a team around 60 persons (PhD, engineer technicians) in charge to develop new colors for major automotive company.
The scope of responsibility starts from color design with OEM means how to translate in term of color the marketing & design inspiration, this development process includes to find the best solution in term of cost, process robustness and approval (paint durability).
Last couple of years this process includes the new automotive challenges as sustainability in term of product & customer process (global C02 & COV footprint).
Last 2 years Frederic was the BASF project leader for Oli the new concept car of Citroën.

ABSTRACT:

Titre : How chemistry can contribute to achieve future carbon neutral emission in automotive paint process?

Manufacturers are committed to ambitious strategies to reduce CO2 emissions of vehicle's manufacturing process.

The painting process of a vehicle represents 50 to 60% of CO2 emissions of a vehicle manufacturing (excluding logistics), the chemistry of paints is an important lever in this drastic reduction.

The two contributors for these CO2 emissions are oven and air conditioning. To paint a vehicle, it is necessary to carry out oven between 130 ° C and 150 ° C depending on the steps and the application of the paint requires regulated air conditions (temperature and humidity).

Through my presentation, I will describe the technologies that BASF coatings has developed and offered to its customers to meet the challenges of CO2 reduction while remaining competitive.