



Desmodur® blulogiq

A Desmodur® blulogiq success story

Desmodur® blulogiq – based clearcoat improves EV coating process.

When painting an electric vehicle body, efficiency and quality are key. With a low temperature clearcoat, paint shops can achieve these benefits through a faster coating process.



Desmodur® blulogiq – based clearcoat improves EV coating process.

Massive rockers protect electric vehicle (EV) batteries from side impacts, but cause a longer heating and cooling curve during high-temperature heating processes. Paint shops don't have to sacrifice efficiency or quality when using PPG's low temperature clearcoat based on Desmodur® blulogiq from Covestro thanks to its novel curing technology.

Task: High quality clearcoat with outstanding appearance for low-temperature processes

PPG® set out to develop a 2K polyurethane clearcoat for Audi that can be applied in current plants by using existing dryers at 85° Celsius – a solution that helps shorten heating and cooling times. The clearcoat needed to meet the mechanical and chemical resistance as well as the appearance of state-of-the-art coating systems.

Challenge: Lower the baking temperature without sacrificing quality

In existing dryers, reducing the baking temperature leads to insufficient curing of the clearcoat. Trying to compensate for this with a conventional catalyst causes an unacceptable appearance.

Solution: A clear solution for Audi with Desmodur® blulogiq

PPG® developed 2K Low Temperature Premium Clear – a new clearcoat based on a new thermolatent hardener. With this clearcoat, existing paint shops can complete the coating process in just 28 minutes at 85° Celsius, without sacrificing quality and performance. Better yet, it reduces process costs and CO₂ emissions.



Benefits: Why Desmodur® blulogiq was the right solution for PPG® and Audi

- Efficient: Enables a 28-minute coating process at 85° Celsius without sacrificing efficiency, coating quality and appearance.
- More sustainable: Reduces energy costs and CO₂ emissions.
- Attractive appearance: No need to sacrifice aesthetics.

Coating supplier: PPG®

Coating system: 2K Low Temperature Premium Clear

Car manufacturer: Audi AG, Germany


„This new clearcoat enables our customers to achieve their EV production goals without compromising quality and performance.“

Dr. Manfred Wunsch, Global Technology Transformation Director, PPG®

„PPG®'s Low Temperature 2K Premium Clear is a promising technology to increase efficiency, lower costs and reduce CO₂ emissions without sacrificing quality.“

Thomas Heußer, Head of Technology Development Materials and Process Engineering at Audi

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