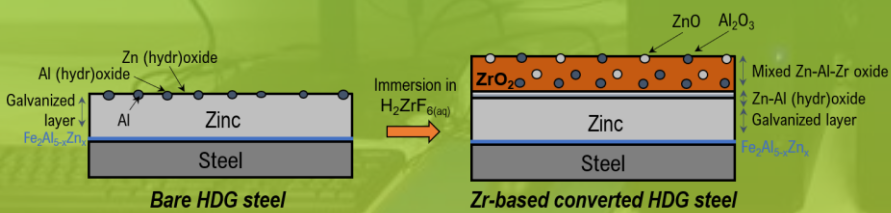
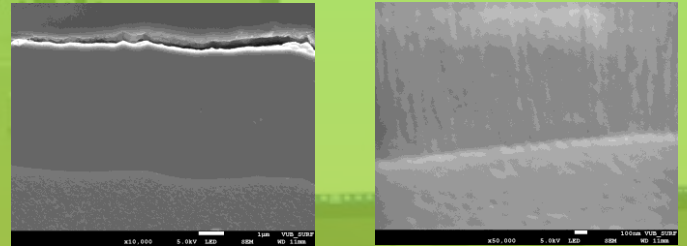


Corrosion research in the SURF group

Corrosion research is an important topic to improve the durability and sustainability of materials. It has many applications, e.g. the fields of automotive industry, aerospace, chemical industry, ... Here is an overview of the **exciting research** that we are conducting at the **Surface and Electrochemistry engineering research group (SURF)** at the Vrije Universiteit Brussel!

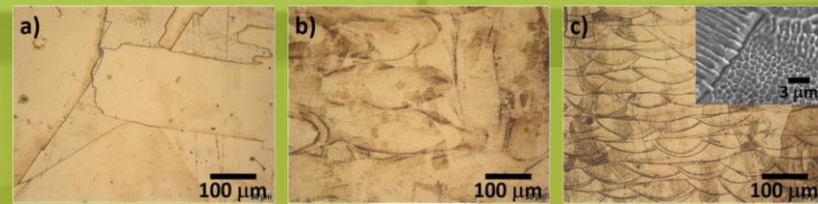
Surface treatment & characterization

Anodizing of aluminium to add a protective oxide layer as a barrier against corrosion.



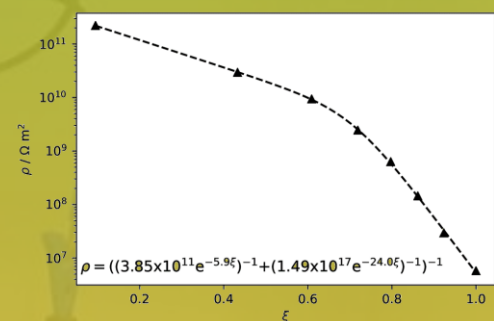
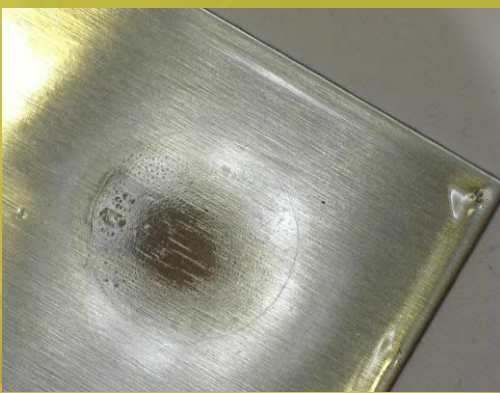
Electrochemical conversion of metal substrates for passivation and improved adhesion.

Additive manufacturing changes the microstructure of materials and therefore corrosion properties.



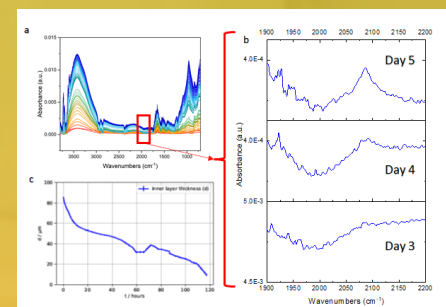
Protective coatings

Monitoring **water and ion transport** to investigate the barrier properties prior to corrosion.



Running extensive **failure tests** to predict the onset of corrosion.

Investigating **interfacial effects** on water and ion transport and coating failure.



Interested in **corrosion research**? Do you want to contribute to improve the **durability and sustainability** of materials? Are you interested in doing either experimental, computational or combined research? Please let us hear from you, we are very excited to work with you!



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See you soon!



ELECTROCHEMICAL
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