

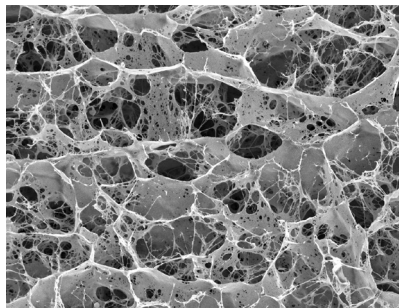


Sustainable Formulations

The Edinburgh Complex Fluids Partnership is experienced in reformulating products using more sustainable ingredients

Context

ECFP's expertise in formulation science and soft matter characterisation helps companies identify where formulation sustainability improvements can be made by providing an understanding of the physical mechanisms underpinning product manufacture, stability and performance. We are particularly interested in assisting industrial partners to reformulate their products using more sustainable ingredients, especially those products currently using petrochemical-derived surfactants and polymers.



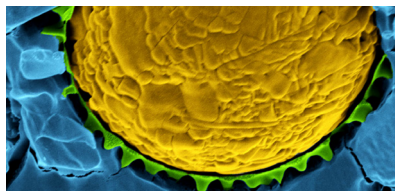
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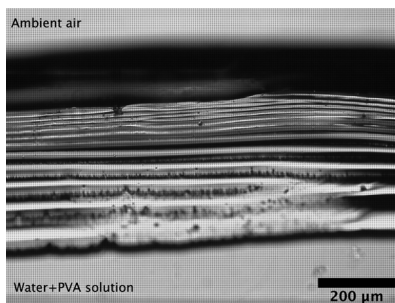
Ingredient functionality

A core component may have more than one functionality for the formulation. Through thorough characterisation and correlation between the product performance and behaviour to the single component functionality, we are able to understand how existing components influence current product performance, and how to reformulate with sustainable alternatives.



Cryo FIB SEM enabled researchers to visualise the stabilising mechanism of microgels for oil in water emulsions

Evaporation dynamics of polymer solutions can be modelled by theoretical polymer physics and the properties of the “crust” formed from evaporation can be experimentally characterised. This combined approach can inform the role and performance of polymers in film formation and assist in reformulation.



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