

Wednesday  
**Webinars**  
With **KOBO** 

## Kobo Europe - Customer Webinar - Oct/Nov 2021

**Did you miss the FLSCC Sunscreen Symposium?**

The webinars below cover what we presented during this event.

Please register for as many customer webinars as you would like to attend.

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**Date:** Wednesday, October 27th, 2021 **Time:** 10:00 AM CEST - 11:00 PM CEST  
*Please note this customer webinar will be accepting attendees until October 26th, 16:00 CEST.  
Invites will be sent within 24 hours of form submission.*

### PODIUM PRESENTATION



#### **Creating a Transparent Sunscreen for Diverse Skin Tones using Zinc Oxide and its Importance**

Broad spectrum sunscreens provide UVA and UVB protection but marketed formulations need to be more inclusive to protect those with deep skin tones. It has been a challenge to find aesthetically pleasing products with a high protective effect. In this work, we analyzed various particle size ZnO combinations, and their synergy with Transparent Iron Oxides as well as mica to neutralize whitening. Using the above technologies, we created a sunscreen that is acceptable for diverse skin tones.

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**Date:** Wednesday, November 24th, 2021 **Time:** 10:00 AM CET - 11:00 PM CET  
*Please note this customer webinar will be accepting attendees until November 23rd, 16:00 CET.  
Invites will be sent within 24 hours of form submission.*

### POSTER PRESENTATIONS



#### **Clean Stick Formulations with Zinc Oxide and Natural Origin Surface Treatments**

Sunscreen sticks offer many advantages, particularly the ones including mineral sunscreens but these formulas can be whitening and present a bluish appearance, especially on deeper and richer skin tones. In this presentation, we will show that Zinc Oxide (ZnO) can be used to mitigate these aesthetic issues, while providing protection from the sun. ZnO of various particle sizes with natural origin surface treatments were tested and formulas were evaluated on panelists of different skin tones demonstrating that it is possible for surface treatments to improve a formula's performance and reduce skin whitening.



#### **Formulating Broad Spectrum Sunscreens under Newly Proposed Rules by FDA**

In February 2019, FDA issued a proposed rule on regulatory requirements for sunscreen products. It proposed that broad spectrum products meet a UVA I/UV ratio of 0.7 or higher in addition to the current requirement of a critical wavelength of 370 nm or above.

In this work, the influence of primary and secondary sizes on the UVA I/UV ratio was studied. Results show that ZnO in general can comply with the new requirement while TiO<sub>2</sub> can comply only if the primary particle size is over ~ 30 nm. It was found that a high ZnO/TiO<sub>2</sub> ratio is needed to comply with the new requirement, which reveals the importance of ZnO usage in sunscreen formulations.

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