

THE NATURAL PERFORMANCE ENHANCER



EXILVA BOOSTS FUNCTIONALITY IN PERSONAL CARE

LOOKING FOR ANTI-WRINKLE EFFECT? EXILVA IS YOUR NEW CHOICE OF FUNCTIONAL ADDITIVE

Exilva is a completely natural and infinitely sustainable cellulose-based performance enhancer that performs as a multifunctional additive in cosmetic systems, as well as increasing your formulation efficiency, reducing your CO_2 footprint and creating exciting opportunities for innovation.

Generating a cream that has the ability to rejuvenate the appearance of the skin is paramount for skincare products. Exilva, a multifunctional additive in cosmetic formulations from one of the most abundant, natural resource on the planet today, can now document its enhanced anti-wrinkle effect in face creams.

This effect is made possible through the threedimensional network formation of Exilva's microfibers. This gives a high available surface area and functional OH-groups, enabling Exilva to both physically and chemically interact with its surroundings and is the secret behind the high performance of Exilva in cosmetic formulations.

To verify the potential of Exilva as an ingredient with anti-wrinkle effect, a test by means of FOITS technique was conducted. The performance of a blemish balm (BB) cream (O/W emulsion) containing Exilva is proved to be superior to the reference (test carried out by a well-known German institute for research, development, testing and analysis for cosmetic products).



FIGURE 1:

Decrease in Rz (Averaged depth of roughness) and Ra (Arithmetic mean roughness) of the skin of volunteers shown against the time of application of the BB creams. Results show enhanced effect of the BB cream with Exilva.

PERIORBITAL REGION - FOITS - RZ AND RA

Mean Difference to Initial Value

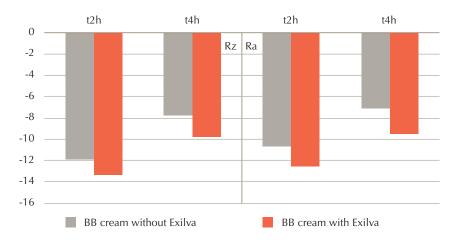
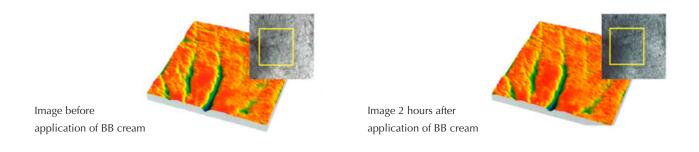


FIGURE 2 Images of the skin of a volunteer before and 2 hours after application of the BB cream with Exilva.



CONCLUSION

As one of its multifunctional properties, Exilva improves the anti-wrinkle effect of BB creams compared to reference.

Statistical comparisons of a reference BB cream and a BB cream containing Exilva result in significant differences for both parameters Rz and Ra, measured at two hours and four hours, each in favour of the BB cream with Exilva (Figure 1).

Qualitatively, it is also visible that the skin roughness in the image of one of the volunteers before application of the cream flattens out (decreases) 2 hours after application of the BB cream containing Exilva (Figure 2).

The formulation used as background for the data presented is available on demand, by sending an enquiry to: exilvasales@borregaard.com

Disclaimer