Floraesters K-20W Increases Skin Hydration When Included in a Hand Sanitizer with Glycerin

Skin hydration was determined by measuring capacitance with a Corneometer® CM825. The data from the study are illustrated in the graph below. Ten minutes following application of the test articles, the sites treated with the test article containing 1% K-20W increased skin hydration 39% while the marketed product, Purell® Instant Hand Sanitizer, did not increase skin hydration (p<0.05). All formulations contained 62% ethanol.

Theoretical Mechanism of Action:
At room temperature, the alcohols and salts of the fatty acids of hydrolyzed jojoba esters generally orient themselves in an ordered geometry; however, when glycerin is added to the system the hydrolyzed jojoba esters break free of the highly ordered geometry, thereby trapping glycerin. Accordingly, when hydrolyzed jojoba esters form a film on the skin, glycerin molecules are incorporated within this film, thereby increasing the bio-available hydration potential of glycerin.

Floratech Ingredients: Floraesters K-20W Jojoba

www.floratech.com