

New technical developments in sun care formulation

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New innovations in sun care formulation in O/W, W/O and sun stick will be discussed;

1) O/W formula

O/W sun care formula has been around mainly for daily sun care as it has watery texture and light spread on skin. Meantime, its main disadvantage has been lack of water resistance. Recently O/W daily sun cares with high SPF and PA with water resistance have been introduced by limiting percentage of emulsifier system.

2) W/O formula

W/O formula is mostly W/Si formula in Asia as silicone is most lightly textured emollient. However there are some market trends which favor non-silicone and PEG free silicone emulsifier system and natural UV filters.

3) Sun Stick

Sun stick has been gaining consumer popularity as it is convenient to carry in a bag and no need to dirt hands when to use. However its backbone formula has been based on wax formula that also provide gloss and stickiness. To overcome these shortcomings, recently emulsion type sun stick formula has been introduced. We'll review emulsion type high SPF and PA sun stick formula with water release effect.

Keywords: O/W sun care, water resistance, water drop effect, water release effect, mineral UV, non-silicone, PEG free, sun stick, emulsion sun stick