Supplementary material to article by A. Bauer et al. "Acceptance and Usability of Different Sunscreen Formulations among Outdoor Workers: A Randomized, Single-blind, Cross-over Study"

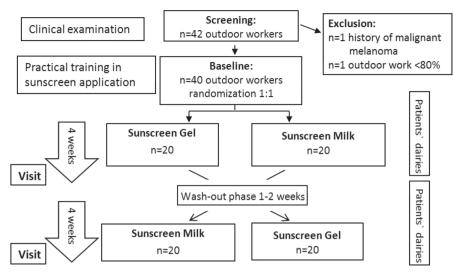


Fig. S1. Study design.

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Table SI. Questionnaire. The numbers of alternative answers to each question are shown in paranthesis

Is the sunscreen easy to apply and spread on the skin? Possible answers: very easy, easy, not that easy, difficult (4).

How does the sunscreen feel on the skin? Possible answers: very pleasant, pleasant, not that pleasant, unpleasant (4).

Is there a sticky feeling left after application of the sunscreen? Possible answers: not at all, somewhat, moderately, very, extremely (5).

How is the sunscreen tolerated on the skin? Possible answers: very well, well, not that well, poorly (4).

Does the sunscreen cause skin irritations (burning, itchiness, erythema of the skin)? Possible answers: no, minor, moderate, severe, extreme (5).

Does the sunscreen cause eye irritations (burning, itchiness, erythema of the eyes)? Possible answers: no, minor, moderate, severe, extreme (5).

How sweat resistant is the sunscreen? Possible answers: very good, good, not that good, poor (4).

Does the product meet the needs for a sunscreen to be regularly used in outdoor occupations? Possible answers: very well, well, not that well, poorly (4).

How do you rate the manageability of the packaging of the sunscreen? Possible answers: very good, good, not that good, poor (4).

Did you experience sunburn during use of the sunscreen? Possible answers: no, yes (2).

What is your overall impression of the sunscreen? Possible answers: very good, good, satisfactory, Adequate, poor, unsatisfactory (6).

Do you plan to use the sunscreen in the future during outdoor work? Possible answers: no, yes (2).

Which sunscreen do you prefer? Possible answers: the sunscreen from first application period, the sunscreen from the current application period (question 13: at final visit only) (2).

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Table SII. Results of the Questionnaire when applied to 40 outdoor workers. Percent distribution among the given alternative answers (see Table SI)

	Sunscreen Gel						Sunscren Milk					
Item	1	2	3	4	5	6	1	2	3	4	5	6
1	32.5	45	22.5	0			45	50	5	0		
2	17.5	70	12.5	0			27.5	65	5	2.5		
3	32.5	30	27.5	7.5	2.5		32.5	42.5	17.5	2.5	5	
4	67.5	32.5	0	0			77.5	22.5	0	0		
5	90	10	0	0	0		97.5	2.5	0	0	0	
6	77.5	12.5	7.5	2.5	0		77.5	12.5	2.5	5	2.5	
7	27.5	57.5	10	5			27.5	62.5	2.5	2.5		
8	40	40	20	0			45	37.5	12.5	5		
9	40	50	10	0			42.5	55	0	2.5		
10	100	0					100	0				
11	22.5	52.5	12.5	2.5	10	0	32.5	52.5	5	5	5	0
12	27.5	72.5					20	80				
13	50	50					50	50				

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Table SIII. Quantity of sunscreen and number of daily applications
used by outdoor workers over the course of the study

	Anthelios XL SPF 50 gel Mean±SD	Anthelios XL SPF 50+ milk Mean ± SD
Consumption for 20 work-days, g	204±131	209±133
Consumption per work-day, g	10.0 ± 6.0	10.5 ± 6.3
Applications per work-day, n	1.48 ± 0.51	1.58 ± 0.57
Consumption per application, g	6.97 ± 3.92	7.00 ± 4.43
Area density per application, mg/cm ²	1.35	1.33