weneos

Sunscreen Testing Expertise ex HelioScreen

SPREADMASTER

Automated sunscreen spreading

The SPREADMASTER is a robot which carries out the automatic spreading of the sunscreen on the substrate. It allows a total control of the product spreading and ensures the reproducibility of the In Vitro UV testing with a very low variability range. In compliance with: ISO/DIS 23675 – FPS in vitro, ISO/CD 23698 – HDRS, ISO 24443:2021 – UVAPF in vitro, FDA monograph 2011 – Broad Spectrum.oots Star Rating system 2011 – UVA/UVB ratio



DESCRIPTION

First, 3 stages of distribution using small circular motions completed in about 30 s.







Second, 3 stages of rubs using alternating horizontal and vertical strokes completed in about 30 s.



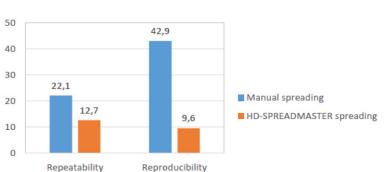




RESULTS

The manual spreading with 8 different operators has been compared to the robotic spreading on 36 sunscreen products (including: O/W emulsions, W/O emulsions, oils, creams, lotions and sprays) coming from different worldwide companies [1].

*repeatability: within operator



TECHNICAL SPECIFICATIONS

General

Weight: < 25 kg

Power supply: 90-264 VAC / 50-60 Hz

Overall size (WxHxL):

317 mm x P: 687 mm x H: 583 mm

Material: Aluminium, Plastic

Power consumption: Approx. 40 Watts

IP Classification: IP40

Temperature: Operational 5 - 45°C



Sun protection field

Spreading time: 1 min **Repeatability :** 5 μm

Spreading tool: Silicone material hardness 20-25

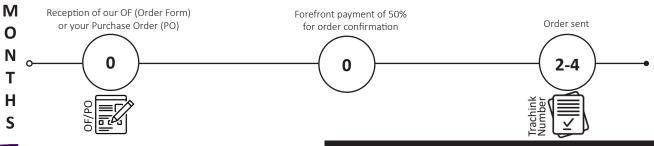
shores (to be replaced every 400 spreading)

Substrates: PMMA Molded Helioplates HD6

PMMA Sandblasted Helioplates SB6

Temperature control: HD-THERMASTER (option)

INFORMATION AND GENERAL TIMETABLE









MADE IN FRANCE

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^{*}reproducibility: between operators