2023.12 (ver.2)

SPF Boost Moisturizer

GLYMOIST® ME-26

NOF CORPORATION

1 GLYMOIST® ME-26

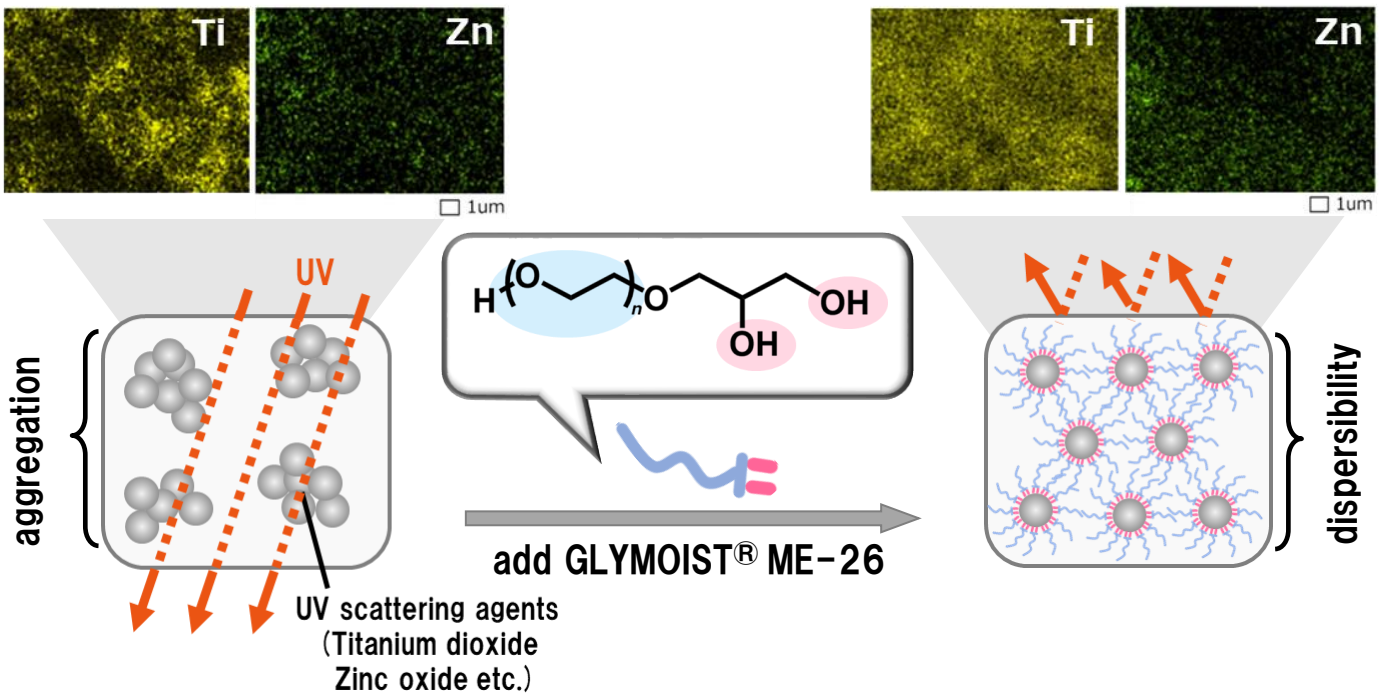
Concept	*SPF Boost Moisturizer*
Description	White or Slightly yellowish solid
INCI	GLYCERETH-26
Chinese INCI	甘油聚醚-26

2 Function of GLYMOIST® ME-26

① Boosts the SPF value of sunscreen formulations.

② Has the same moisturizing effect as glycerin and improves texture.

＜ Method ＞ • Equipment :Scanning Electron Microscope (SEM) (JSM-IT300HR/LA, JEOL Ltd.)
• Sample : Apply Sunscreen formulation (O/W-type) to artificial leather



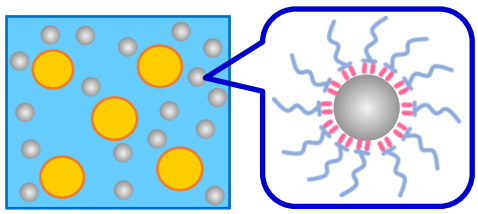
adsorption part ▶ adjacent hydroxyl group
steric repulsion part ▶ long alkylene oxide chain

Improves dispersibility of UV scattering agents.
Shows effect of SPF boost.

3 Effect of SPF boost

< Method >

- Equipment : SPF Analyzer (UV-2000S, Labsphere Ltd.)
- Sample: Apply 1.3mg/cm² of sunscreen formulation (table.) to the PMMA plate.

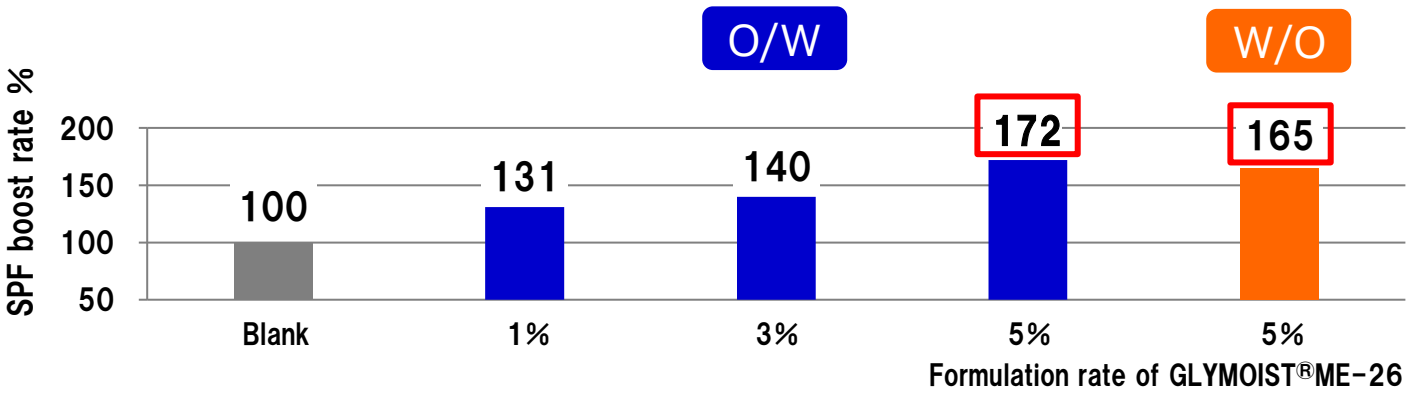


: Water Phase　: UV Scatting Agent

: Oil Phase　: GLYMOIST® ME-26

table.

	Ingredient	O/W (%)	W/O (%)
Water Phase	Water	Balance	
	Titanium Dioxide, (Hydrophilization)	10	—
	GLYMOIST®ME-26	0-5	
Oil Phase	Titanium Dioxide, (Hydrophobization)	—	10
	Hydrogenated Polyisobutene	15	10
	Dimethicone	—	20
Emulsifier	PEG-75 Stearate	1.2	—
	Glyceryl Stearate	0.8	—
	Behenyl Alcohol	1.5	—
	PEG-10 Dimethicone	—	3.0
Thickener, Preservative		Quant.	

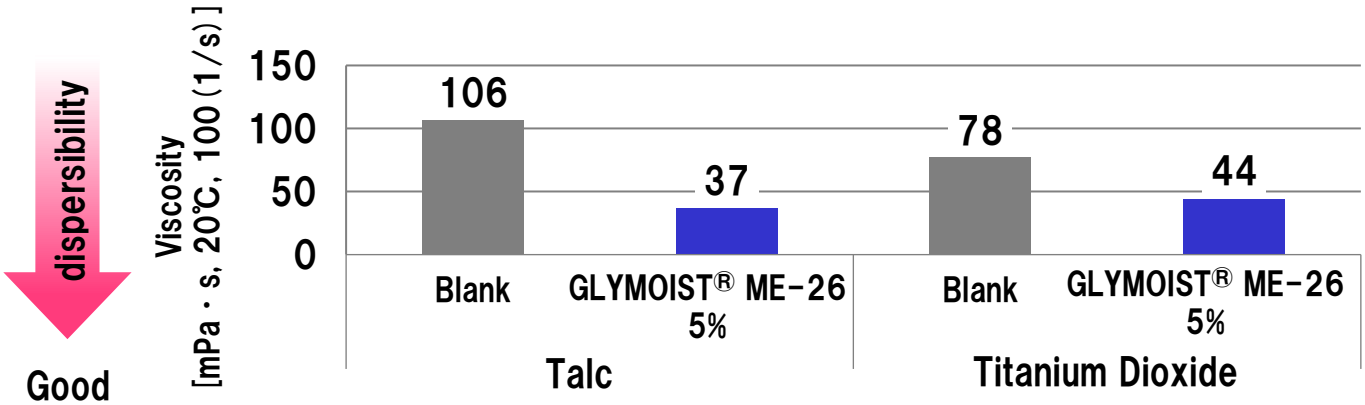


The formulation with GLYMOIST®ME-26 improved SPF value.
Possible to reduce the amount of UV scattering agents.

4 Effect of pigments dispersibility

< Method >

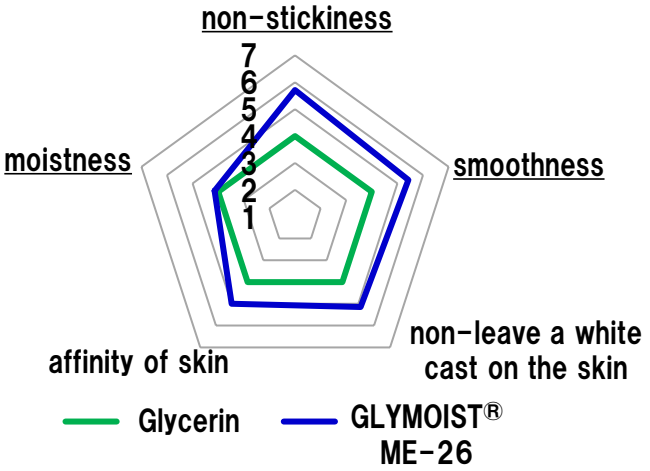
- Equipment : Rheometer (MCR302, Anton Paar Ltd.)
- Dispersion Medium : Water
  Particles : Talc (17 μm) 20% : Titanium Dioxide (0.250 μm) 30%



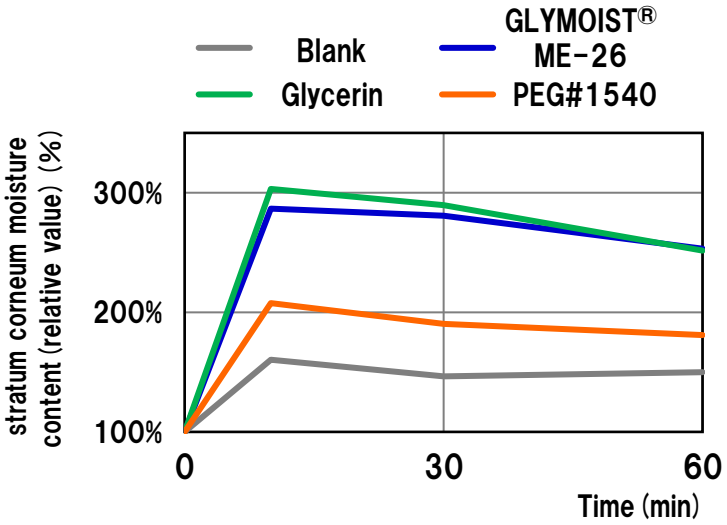
GLYMOIST® ME-26 can improve dispersibility of pigments.

5 Effect of improvement texture

＜ Sample＞ Sunscreen (W/O-type) cream containing 5.0 wt% of each ingredients.
＜ Method ＞ Each sensory property (7 levels) was evaluated by 7 persons (male:4, fimale:3). The level of glycerin was difined as 4.



＜ Sample＞ Sunscreen (W/O-type) cream containing 5.0 wt% of each ingredients.
＜ Method ＞ The water content of the stratum corneum was measured by SKICON-200EX-USB (YAYOI Ltd.).
Temperature：20℃, Humidity：40%



GLYMOIST®ME-26 has a high moisturizing and feel-improving effect.

6 Information on Safety Data

• Animal alternative eye irritation test (as is)	: Non Irritant
• Animal alternative skin irritation test (50%aq.)	: Non Irritant
• Acute oral toxicity test (NRU-EUC) (maximum test concentration)	: LD_{50}≧2000 mg/kg
• Mutagenicity/genotoxicity test in vitro (AMES) (maximum test concentration)	: Negative
• Skin sensitization test in vitro (h-CLAT) (maximum test concentration)	: Negative
• Human patch test (24hr) (as is)	: Non Irritant
• Skin sensitization test (HRIPT) (as is)	: Non Irritant Non Sensitization

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