



Silasoma™

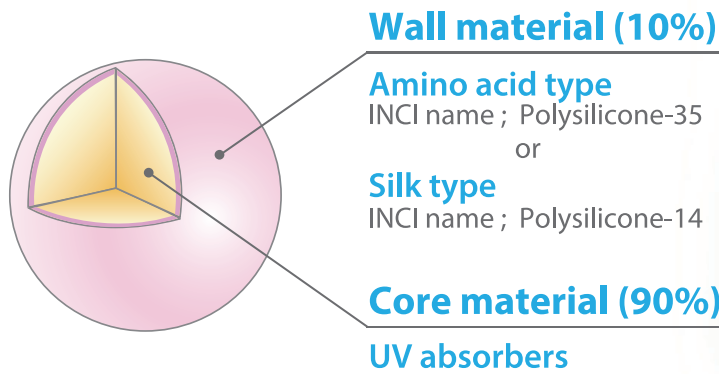
Encapsulated UV absorbers

*Strength against UV
and
Warmth toward skin*

*Wrapping UV absorbers up
in **Amino acid** or **Silk** capsule by our own technology,
getting **safer and more comfortable texture.***

What is Silasoma ?

Water dispersion of capsules, encapsulated UV absorbers



Silky touch !!
Smooth feeling !!

Having several lineup,
containing different
UV absorbers

Advantages

POINT
1

Safety improvement

Capsules prevent direct contact of UV absorbers to the skin.
It enables to develop safer sun-care products.

POINT
2

Comfortable texture

Capsulation technology solves excessive oily feeling caused by UV absorbers,
and contributes to silky and smooth sensory-texture.

POINT
3

Contribute to emulsifier-saving formulae

Silasoma is a water dispersion of encapsulated UV absorbers.
It enables to develop emulsifier-saving formulae.

POINT
4

Not only for Skin but also for Hair care

Silasoma can be formulated into both skin and hair care products.



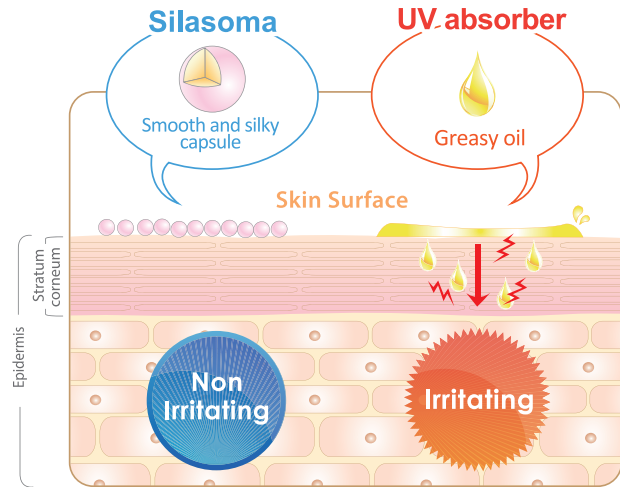
Silasoma and UV absorber

Generally UV absorbers have disadvantages, greasy sensory texture and skin irritation.

Silasoma overcomes those disadvantages by original capsulation technology.

Silasoma has excellent safety, because its capsule wall can prevent direct contact of UV absorbers to the skin. And it has good sensory texture, because silk or serine derived component is contained in capsule wall.

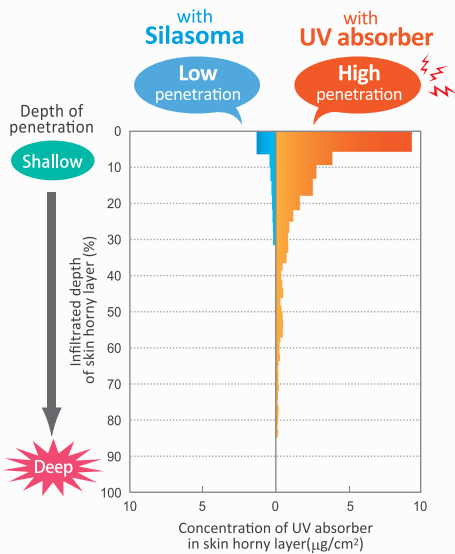
Silasoma well protects sensitive skin from UV with silky and smooth usability.



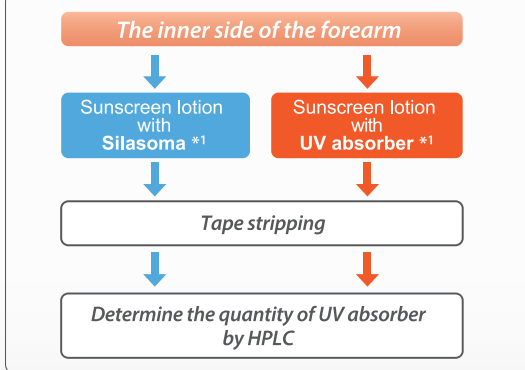
POINT
1

Safety improvement

Tape stripping test (in vivo)



Method

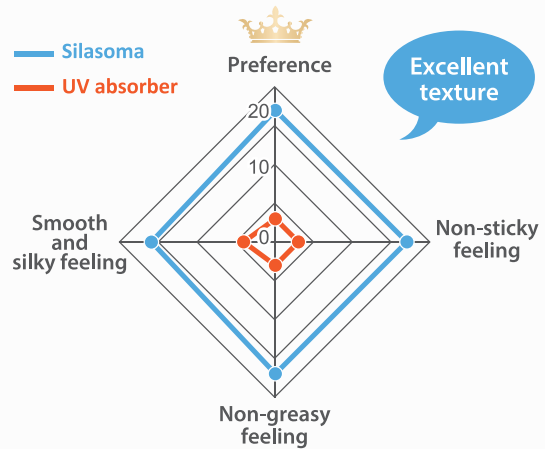


*1 Both formulae containing same amount of UV absorber.

POINT
2

Comfortable texture

Sensory evaluation test



Method

Sensory evaluation was conducted by 10 panels using 2 test formulae. Formula having superior result was given 2 point and comparable result was given 1 point. The total points of each item were summed.

Sunscreen cream

(W/W%)

Ingredient	Silasoma	UV absorber
Silasoma MEA(S)	20.0 *2	—
Ethylhexyl Methoxycinnamate	—	8.6 *2
Butyl Methoxydibenzoylmethane	—	2.2 *2
Thickening agents *3	5.0	5.0
Phenoxyethanol	0.3	0.3
Water	Up to 100	Up to 100

*2 Both formulae containing same amount of UV absorber.

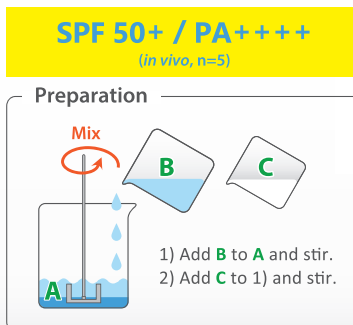
*3 Hydroxyethyl Acrylate/ Sodium Acryloyldimethyl Taurate Copolymer, Squalane, Polysorbate 60, Water

POINT
3

Contribute to emulsifier-saving formulae

Aminocapsule UV Cream For Sensitive Skin (SPF50+/PA++++) Formulation No. SU-219

Ingredients		(W/W%)
A	Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer, Polyisobutene, PEG-7 Trimethylolpropane Coconut Ether, Water	2.0
	Butylene Glycol	10.0
	Phenoxyethanol, Ethylhexylglycerin	0.5
	Water	Up to 100
B	Zinc Oxide, Cyclopentasiloxane, PEG-9 Dimethicone, Hydrogen Dimethicone	17.2
C	Silasoma SP	20.0

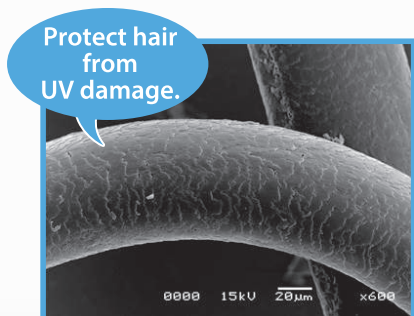


Enable to mix UV scatterer !!

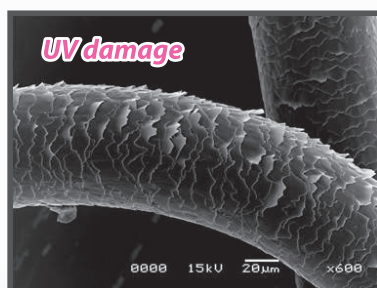
POINT
4

Not only for Skin but also for Hair care

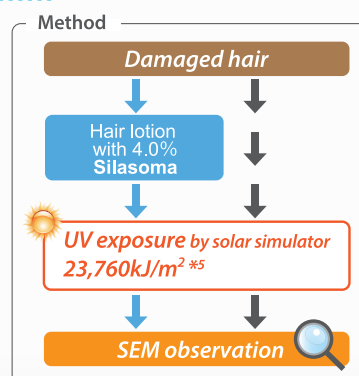
SEM*4 observation



Silasoma hair lotion



Control (No-treated)



*4 Scanning electron microscope
*5 Equivalent UV amount for 1 month during summer in Japan.

Silasoma product lineup

Wall material	Product	INCI Name	Additives	Preservative FREE	NMPA approved	Quasi-drug ingredient
Amino acid	Silasoma SP	Polysilicone-35, Ethylhexyl Methoxycinnamate, Diethylamino Hydroxybenzoyl Hexyl Benzoate, Water	Pentylene Glycol (3%) Tocopherol (≤0.1%)	✓		
Silk	Silasoma EP(S)	Polysilicone-14, Ethylhexyl Methoxycinnamate, Diethylamino Hydroxybenzoyl Hexyl Benzoate, Water	Phenoxyethanol (2%) Butylene Glycol (2%) Disodium EDTA (0.2%)		✓	✓
	Silasoma REA(E)	Polysilicone-14, Octocrylene, Butyl Methoxydibenzoylmethane, Water			✓	
	Silasoma MEA	Polysilicone-14, Ethylhexyl Methoxycinnamate, Butyl Methoxydibenzoylmethane, Water	Phenoxyethanol (2%) Butylene Glycol (2%) Etidronic Acid (0.05-0.2%)		✓	✓
	Silasoma MEA(S)		Phenoxyethanol (2%) Butylene Glycol (2%) Disodium EDTA (0.2%)		✓	✓
	Silasoma MEA(V)		Pentylene Glycol (4%) Disodium EDTA (0.2%) Ethylhexylglycerin (0.18%)	✓	✓	✓
	Silasoma MEA(L)		Phenoxyethanol (2%) Butylene Glycol (2%) Etidronic Acid (0.05-0.2%) Tocopherol (≤0.1%)		✓	✓
Silasoma ME(N)	Polysilicone-14, Ethylhexyl Methoxycinnamate, Water	Phenoxyethanol (2%) Butylene Glycol (2%)		✓	✓	

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