

CosmoSurf® SCD-140

with both solid & liquid peripheries, SCD-140 provides structure to formulation while maintaining exceptional spreadability.



The image shows how SCD-140's liquid and solid portions orient. The liquid portion of the polymer (shown in black) allows SCD-140 to enhance feel and provide a shear induced flow. The solid (shown in white) provides structure and sustainability. SCD-140 orientates to form a matrix, as if it is chain linked.

This orientation makes SCD-140 a fantastic waterproofing agent. A sunscreen using SCD-140 (see a sample formulation on the other side) not only felt great but also maintained high-levels of SPF after an 80 min water emersion test.

CosmoSurf® SCD-140 is a functional complex designed, designed to deliver superior film forming performance for Sun-care formulations. This complex is designed to maximize water resistance, solubility parameters, and ingredient compatibility. Utilizing long chain (Stearyl Citrate) and short chain alkyls (Trioctyldodecyl citrate) provides the perfect mixture of water resistance properties while maintaining an ideal skin-feel upon spread.

For more information,
contact us at ctarletsky@surfatech.com
for ingredient supply and customized consulting

High performance, natural based waterproofing polymer

FILM FORMING POLYMER

INCI:

**Stearyl Citrate, Trioctyldodecyl Citrate,
Propandiol**

Key properties:

- **passes 80 min water emersion test**
- **exceptional sensory and skin feel**
- **functional performance at low concentrations**

Suggested use:

**for waterproof sun care sport line with high spf
(see other side for a sample formulation)**

SurfaTech Corporation

1625 Lakes Pkwy suite N
Lawrenceville, GA 30043

770-876-6983

CosmoSurf® SCD-140

Natural waterproofing polymer for
“microplastic free” sun care product

OCEAN SAFE COMMITMENT

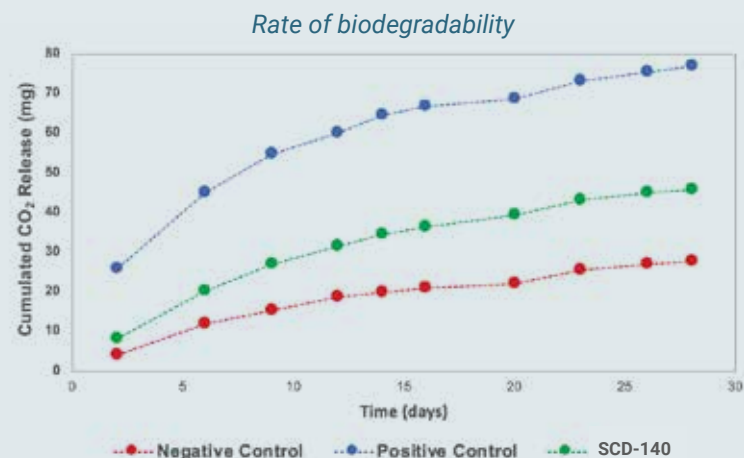
Sample formulation:
high SPF waterproof sunscreen

	A	B	C
Water	74.20	83.10	83.10
Carbomer	0.25	0.25	0.25
Disodium Ethylenediaminetetraacetic acid	0.05	0.05	0.05
Triethanolamine	1.00	1.00	1.00
Octocrylene	3.00	3.00	3.00
Octisalate	3.00	3.00	3.00
Oxybenzone	2.00	2.00	2.00
Avobenzone	1.00	1.00	1.00
Stearic Acid	2.00	1.00	1.00
Sorbitan Isostearate	0.00	1.00	1.00
Polyglyceryl-3 Distearate	0.00	1.00	1.00
Glyceryl Stearate	3.00	0.00	0.00
Benzyl Alcohol	1.00	1.00	1.00
Dimethylpolysiloxane	0.50	0.50	0.50
VP/Eicosene Copolymer	0.00	0.00	2.00
Methylparaben	0.00	0.10	0.10
C12-15 Alkyl Benzoate	8.00	0.00	0.00
CosmoSurf® SCD-140	0.00	2.00	0.00
Phenoxyethanol (and) Isopropylparaben (and) Isobutylparaben (and) Butylparaben	1.00	0.00	0.00

	SPF	Result
A	< 19	-
B (SCD-140)	28.85	VWR
C	29.05	VWR

3 Subject in vivo SPF 80 min water immersion Test
All 3 were found to be Very Water Resistant (VWR)

SurfaTech is committed to creating
microplastic free, coral reef safe, biodegradable
ingredients using patented molecular technology.



It is our belief that it is our responsibility to protect the environment for future generations. We accomplish this by producing green materials. We believe the path to a greener tomorrow moves away from non-green plastics (polyacrylates, polyethylene, PEG, ect.) to high-functioning polymers that are naturally derived and made from renewable resources without catalyst or solvents.

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