

24hr Moisturizing Water Gel with SPF15 (expected) 14781-42

Description

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This moisturizing formula features HYDROVANCE® moisturizing agent (50% solids) that provides an excellent moisturization, increases skin elasticity, and enhances tactile sensory properties of formulations.

24hr Moisturizing Water Gel with SPF15 (expected) contains as well our Elfacos® emulsifiers range enabling cost effecient, easy to process and pleasing W/O emulsions.

ELFACOS® E200 emulsifier is a higly effective W/O emulsifier and has high water binding capacity.

Elfacos® ST 9 which has an excellent stablilizing effect on emulsions. Having a high capacity to absorb water and oil, a relatively low percentage is needed in cosmetic formulae.

The pleasing rheology is obtained by combining two naturally derived rheology modifiers:

Derived from potatos, STRUCTURE® SOLANACE starch is used in this formulation to create a unique light rheology in a low pH system.

STRUCTURE® XL starch can aid in emulsion stabilization, aesthetics enhancement and viscosity-build. The ease of use and immediate dispersability in cold water make it ideal for use in continuous manufacturing processes.

Finally the after-feel on the skin is due to DRY-FLO® TS starch is modified tapioca starches which enhance the aesthetics of a broad variety of skin care products. Perhaps the most distinctive property of these unique products is its ability to impart a pleasant light, dry, and silky after-feel to finished formulations.

Formula

Trade Name	INCI Name	% w/w	Supplier
Phase A			
Deionized Water	Water (Aqua)	64.80%	Local
STRUCTURE® SOLANACE starch	Potato Starch Modified	2.00%	AkzoNobel
STRUCTURE® XL starch	Hydroxypropyl Starch Phosphate	1.20%	AkzoNobel
Phase B			
Elfacos® E 200 emulsifier	Methoxy PEG-22/Dodecyl Glycol Copolymer	5.00%	AkzoNobel
Elfacos® ST 9	PEG-45 / Dodecyl Glycol Copolymer	2.00%	AkzoNobel
Cetiol® CC	Dicaprylyl Carbonate	3.00%	BASF Care Creations
XIAMETER® PMX-0245	Cyclopentasiloxane	1.00%	Dow Corning Corp
Neo Heliopan® OS	Ethylhexyl Salicylate	0.50%	Symrise
Neo Heliopan® AV	Ethylhexyl Methoxycinnamate	1.00%	Symrise
Phase C		•	

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Trade Name	INCI Name	% w/w	Supplier
	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine (and) Acrylates/C12-22 Alkyl Methacrylate		
Tinosorb® S Lite Aqua	Copolymer	5.00%	BASF Care Creations
HYDROVANCE® moisturizing			
agent (50% solids)	Hydroxyethyl Urea	10.00%	AkzoNobel
Citroflex® 2	Triethyl Citrate	0.50%	Vertellus Performance Materials Inc.
Phase D			
DRY-FLO® TS starch	Tapioca Starch (and) Polymethylsilsesquioxane	3.00%	AkzoNobel
Microcare® PEHG	Phenoxyethanol (and) Ethylhexylglycerin	1.00%	Thor
25% Citric Acid Solution	Citric Acid (and) Water	0.00%	Local
	Total:	100.00%	,

Procedure

- 1. Prepare Phase A: Add water to the batch and stir with a propeller stirrer. Add STRUCTURE® SOLANACE starch and STRUCTURE® XL starch to the vortex and heat the batch at 75°C. Mix well until obtaining a thick translucent gel.
- 2. Prepare Phase B: In a seperate beaker mix all ingredients and melt everything at 75°C., until homogenous.
- 3. When Phase A & B are ready, add Phase A to Phase B with a high shear homogenezer (Silverson, Ultra Turax) and homogenize until the emulsion is formed (white emulsion).
- 4. Start cooling down the batch an keep mixing with a propeller stirrer and add one by one all ingredients of Phase C. Mix well in-between.
- 5. When Batch temperature is below 40°C add DRY-FLO® TS starch to the batch. Mix well until homogenous.
- 6. Add remaining ingredients and drop the batch.

ALTERNATIVE PROCESS: COLD PROCESS

- a. Prepare Phase A: Add water to the batch and stir with a propeller stirrer. Add STRUCTURE® SOLANACE starch and STRUCTURE® XL starch to the vortex and heat the batch at 75°C. Mix well until obtaining a thick translucent gel.
- b. Let phase A cool down at room temperature.
- c. Prepare Phase B: Mix all the ingredients of phase B to obtain a homogenous liquid paste at room temperature.
- d. When Phase A & B are ready, add Phase A to Phase B with a high shear homogenezer (Silverson, Ultra Turax) and homogenize until the emulsion is formed (white emulsion).
- e. Back to the propeller stirrer, add one by one all ingredients of Phase C. Mix well in-between.
- f. Add DRY-FLO® TS starch to the batch. Mix well until homogenous.
- g. Add remaining ingredients and drop the batch.

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Properties

Appearance	White Lotion
рН	5.5 <ph<6.5< td=""></ph<6.5<>
Brookfield Viscosity	Target = 12000 cPs Min = 8000 cPs Max = 16000 cPs Method Parameters = Brookfield RVF, T-Spindle, 10 rpm, 25°C

Packaging

Airless Bottle and Pump, White with Overcap, Clear (#29940) from QOSMEDIX (https://www.gosmedix.com/packaging)

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