



Selvol™ Ultalux FF

Lending Adhesive and Film-forming Properties to Personal Care Formulations

Selvol Ultalux FF polyvinyl alcohol (PVOH) is a high molecular weight film former and adhesion promoter that can be used in a wide range of personal care applications including peelable masks, multipurpose creams, body washes and sun screens. As part of the Ultalux range of PVOH, the FF grade is tested for high quality and purity and has been determined to be non-irritating in skin care formulations.

Selvol Ultalux FF Functions

- Adhesion promoter
- Film former
- Fixative
- Foaming promoter
- Fragrance delivery
- Lubricant
- Viscosity enhancement/control
- Wetting agent

Selvol Ultalux FF Properties

Grade	Viscosity, cps ¹	pH ²	Tensile Strength, psi ³	Modulus, psi	Elongation at Break, %	Adhesion to Glass, g
Selvol Ultalux FF	22,000 - 26,000	4.5 - 6.5	1,400 - 2,000	1,500 - 2,500	> 200	100 - 140

1. Viscosity of a 15% solution, 20°C

2. 4% Aqueous Solution

3. Tensile properties and adhesion were measured on films containing 12% PVOH and 3% glycerin after casting and drying in a controlled temperature and humidity room for 24 hours



Applications of Selvol Ultalux FF in Personal Care Formulations

Brow makeup, anti-aging products, body washes, ethnic hair care/weaves, eye lashes, eye liners, eye shadow, hair styling gels, mascara, facial masks and peels, pore strips, scar treatment and shampoos/conditioners.

Black Mascara Formulation with Selvol Ultalux FF

Selvol Ultalux FF in black mascara formulations serves as an adhesion promoter, film former and viscosity control agent.

Ingredient	WT%
Water	88.00
SD Alcohol 40-B	4.50
Carbomer 940	2.30
Triethanolamine	1.00
Selvol Ultalux FF	1.00
Glycerin	0.50
Methylparaben	0.25
Trisodium EDTA	0.05
Iron Oxide Black	2.40

Procedure

Vessel 1: Combine Water, Selvol Ultalux FF, Trisodium EDTA, Glycerin and heat to 80°C for 30 minutes or until solids are no longer present; transfer to Vessel 2

Vessel 2: Combine Water, 2.3% Carbomer 940 Solution, Iron Oxide Black and heat to 80°C for 30 minutes and then cool mixture to 28°- 35°C before adding Vessels 3 and 4

Vessel 3: Combine Ethanol and Methylparaben in a beaker, mix on a stir plate for 30 minutes or until Methylparaben has completely wet out into the Ethanol; Add mixture to Vessel 2

Vessel 4: Combine Triethanolamine and Water in a beaker, mix on stir plate for 30 minutes or until TEA has completely wet out into the Water; Add mixture to Vessel 2

Typical Properties

Appearance: Black, tacky cream/liquid

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Visit www.selvol.com for more information.

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The logo for Sekisui, featuring the word "SEKISUI" in a bold, blue, sans-serif font. The letter "S" is significantly larger than the other letters and has a small red dot above its top curve.