



Bubble – Hair Styling Gel

An example of a clear hair gel with air bubbles in suspension related to the use of the rheology modifying agent; **Aculyn™ 88** working in synergy with Laponite® Clay for enhanced suspension. **Acudyne™ 1000 Hair Styling Polymer** provides outstanding hold and style durability, with excellent humidity resistance. The **AMP-ULTRA™ PC 2000** neutralizing polymer demonstrates a higher percentage of curl retention over time when compared with other classical neutralizing agents. With **AMP-ULTRA™ PC 2000**, formulators can create a hair care product that helps to hold a hair style, even during extreme humidity.

	Trade name	INCI name	Supplier	%
A	1 Water	Water (Aqua)	Univar*	69
	2 Acudyne™ 1000	Acrylates/Hydroxyesters Acrylates Copolymer	Dow Personal Care / Univar*	4.47
	3 AMP-Ultra™ PC 2000	Aminomethyl Propanol	Dow Chemical / Univar*	0.62
	4 Laponite XLG	Lithium Magensium Sodium Silicate	Rockwood	0.4
B	5 Water	Water (Aqua)	Univar*	20.01
	6 Aculyn™ 88	Acrylates/Steareth-20 Methacrylate Crosspolymer	Dow Personal Care / Univar*	5
C	7 Kem Plus 2	Phenoxyethanol and Iodopropyl Butylcarbamate	Akema Fine Chemicals/ Univar*	0.5
D	8 AMP-Ultra™ PC 2000	Aminomethyl Propanol	Dow Chemical / Univar*	QS

* Please contact your regional Univar sales representative to ensure that mentioned products are distributed in your country.

Procedure

1. Mix Acudyne™ 1000 with water of phase A.
2. Add droplet by droplet AMP-Ultra™ PC 2000 until previous solution becomes clear.
3. Prepare phase B as following:
 - Sprinkle Laponite XLG into water by mixing until homogeneous and clear.
 - Slowly add Aculyn™ 88 into previous mix under gentle stirring.
4. Gradually add phase B into phase A whilst gently stirring until it becomes homogeneous.
5. Add phase C into phase A/B whilst gently stirring until it becomes homogeneous.
6. Adjust pH to 7.5 with AMP-Ultra™ PC 2000 if needed.

Stability

Stable for at least 1 month at room temperature (RT) and 40°C (still ongoing)

Comments

- Clear gel with air bubbles in suspension.
- Formula inspired from the reference 050312.A(U) launched at InCosmetics 2012
- Viscosity: 90 000 mPa.s +/- 10 000 mPa.s (Brookfield RVDV-II+ Pro, spindle n°6, 6 rpm, 1 min).
- pH : 7.46

Reference: 090315.CM(U)-E

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