ΕΛSTΜΛΝ

Spray gel with Eastman AQ[™] 48 ultra polymer

This shear-thinning spray gel demonstrates the use of Eastman AQ 48 polymer as a film former and hair fixative with Laponite-XLG silicate to make a translucent gel. The gel holds air bubbles on standing but is extremely shear thinning, providing excellent spray-out from a standard pump-spray container.

Part	Product name	Wt%	Ingredient/INCI name	Manufacturer
A	Deionized water	60.2	Water (aqua)	—
	Laponite-XLG ¹	2.8	Sodium magnesium silicate	BYK/Eckart
В	Deionized water	29.4	Water (aqua)	—
	Glycerin	3.0	Glycerin	VVF
	Eastman AQ [™] 48 ultra polymer	4.0	Polyester-5	Eastman
	EDETA [®] BD	0.1	Disodium EDTA	BASF
С	Preservative	q.s.	_	_
D	Citric acid, 20% in water	q.s.	Citric acid	—

¹Rockwood Additives, Southern Clay Products, Inc

PROCEDURE

Part A

- 1. Stir water rapidly while sprinkling in Laponite-XLG.
- 2. Mix until clear (20–30 minutes).

Part B

- 3. Combine water and glycerin.
- 4. Heat while stirring until temperature reaches about 45°C.
- 5. Add Eastman AQ 48 pellets and stir without heating until dispersed.
- 6. Add disodium EDTA and stir until dissolved.
- 7. Cool to room temperature.
- 8. Slowly add part B to part A, and mix until homogeneous.

Part C

9. Add part C to the mixture of parts A and B, and stir until thoroughly mixed.

Part D

10. While stirring the combined A/B/C mixture, slowly add part D (citric acid) to adjust pH to 4.2. (Note: pH will drift up to about 7.0 over 1 to 2 days.)

Directions for hairstyling demonstration

Spray onto short, damp hair and arrange as desired.



Eastman Corporate Headquarters P.O. Box 431 Kingsport, TN 37662-5280 U.S.A.

U.S.A. and Canada, 800-EASTMAN (800-327-8626) Other Locations, +(1) 423-229-2000

www.eastman.com/locations

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