

LONG-LASTING, SEMI-PERMANENT HAIR DYE

with Floraesters K-20W® Jojoba



This semi-permanent hair dye with **Floraesters K-20W Jojoba** increases color uptake (i.e. deposition) and provides more even coverage, leaving hair color looking rich and radiant. Studies have also shown that **Floraesters K-20W Jojoba** provides longer lasting hair color (less color loss due to washing), decreasing the need for frequent hair dyeing.

Phase	Trade Name	INCI	Supplier	%WT
A	Oxowax	Cetyl Alcohol (and) Oleyl Alcohol (and) Cetearyl Alcohol (and) Stearic Acid	Sensient Cosmetic Technologies	15.00
		Genapol® LA 070 S	Clariant Corporation	10.00
	Ritacet 20	Ceteareth-20	Rita Corporation	4.00
	Hicall K-230	Mineral Oil	Kaneda Co., Ltd.	2.00
B	Lanette® E	Sodium Cetearyl Sulfate	BASF Corporation	1.00
	Deionized Water	Water	-----	q.s.
C	Arianor® Fire Orange 306081	Basic Orange 31	Sensient Cosmetic Technologies	0.20
		Deionized Water	Water	-----
D	Floraesters K-20W Jojoba	Hydrolyzed Jojoba Esters (and) Water (Aqua)	Cargill Beauty	2.00
	Propylene Glycol USP/EP	Propylene Glycol	Ashland	2.00
E	Merquat® 100 Polymer	Polyquaternium-6	The Lubrizol Corporation	4.00
	Citric Acid, USP (30% Solution)	Citric Acid (and) Water	Archer Daniels Midland Co.	q.s.

CHARACTERISTICS

- pH: 3 - 4
- Viscosity: 59 - 199kcP

PROCESS

1. Mix the ingredients of Phase A at 70-80°C with moderate propeller agitation.
2. In a separate vessel, combine the ingredients of Phase B at 70-80°C with moderate propeller agitation.
3. Once Phase B is uniform, add Phase B to Phase A.
4. Switch Phase AB to homomixing. In separate vessel, dissolve the Arianor Fire Orange 306081 in the deionized water of Phase C.
5. Add Phase C to Phase AB while maintaining a temperature of 70-80°C. Continue homomixing until uniform. Switch to moderate propeller agitation and cool to 55-60°C.
6. In a separate vessel, combine the Floraesters K-20W Jojoba with the Propylene Glycol USP/EP of Phase D. Mix until the Floraesters K-20W Jojoba is well dispersed.
7. Add Phase D to Phase ABC with moderate propeller agitation.
8. Cool the mixture to 40-50°C. Add the Merquat 100 Polymer with moderate propeller agitation.
9. Once the mixture has cooled to 30-40°C, adjust pH to 4.0-4.5 with the Citric Acid, UPS (30% Solution) of Phase E.



PATENTS AND REGULATIONS The information presented herein is intended to illustrate the possible technical applications of our products. However, since the use of this information and our products is beyond our control, any recommendations or suggestions are made without guarantee of warranty in each country and particularly in the absence of patent rights. In addition, we recommend that the user ensures that this product is in compliance with the local regulations in force, particularly in the country where the finished product is to be consumed. It is the responsibility of the user to comply with the patents and the regulations in force.

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