

Interpolymer offers
several suggested formulations for
Gels / Crèmes for Ethnic Hair Care Applications.

(This is an interactive PDF file. Simply click on the links appropriate to the information you wish to view.)

- Root Lifter / Spray Gel F-18-82
- Sculpting & Smoothing Crème w/Fibers—Med. Hold F-18-84
- Creamy Ethnic Gel / Straightener F-18-85
- Conditioning / Styling Gel and Curl Enhancer F-24-01
- Moisturizing Styling Gel F-24-09

ROOT LIFTER / SPRAY GEL

Formulation F-18-82

A styling aide with weightless control at the root, providing optimal body and thickness. The formula will be resistant to humidity to maintain volume after blow drying and it will provide a definite medium-hold.

	<u>INCI Designation</u>	<u>Weight %</u>
Phase A		
Distilled Water	Water	89.22
Structure 3001 (National Starch)	Acrylates/Ceteth-20 Itaconate Copolymer	2.35
SYNTRAN® PC 5117	Polyacrylates-18 (and) Polyacrylates-19	6.00
Keravis (Croda)	Hydrolyzed Veg. Protein PG-Propyl Silanetriol	0.10
Glycerin	Glycerin	0.50
Promois S-720 (Selwa Kasei)	Hydrolyzed Silk	0.30
Phase B		
PEG-40 Hyd Castor Oil (Lipo)	PEG-40 Hyd Castor Oil	0.40
Fragrance	Fragrance	0.10
Phase C		
Liquid Glydant Plus (Lonza)	DMDMH, IPBC	0.30
0.10% Green #5	Green #5	0.15
0.10% Yellow #5	Yellow #5	0.05
AMP-95 (Angus)	Amino Methyl Propanol	0.53
	YIELD:	100.00

Adjust pH: 8.50 – 8.75
Viscosity 200cps

Pump Sprayer:

Optima 160 mcl output
Fine mist spray pump

2/2006

MEDIUM HOLD SCULPTING AND SMOOTHING CRÈME WITH FIBERS

Formulation F-18-84

High-tech sculpting and smoothing crème with Nylon fibers can be applied to wet or dry hair. Medium hold formula shapes hair for sleek-straight look or natural looking curls/waves. Instantly restores moisture and natural oils to dry hair. Creates ultra-glossy finish, smoothes away frizz and fights high humidity.

	<u>INCI Designation</u>	<u>Weight %</u>
Phase A—Heat to 75°C		
Distilled Water	Water	73.54
SYNTRAN® PC 5117	Polyacrylates-18 (and) Polyacrylates-19	4.00
Propylene Glycol	Propylene Glycol	5.00
Phase B—Add at 75-80°C		
Finsolv TN (Finetex)	C12-15 Alkyl Benzoate	3.00
DC 200 Fluid-20 cst (Dow Corning)	Dimethicone	1.50
DC 200 Fluid 100 cst (Dow Corning)	Dimethicone	1.00
Jojoba Oil (Floritech)	Simmondsia Chinensis Seed Oil	3.00
Protachem SMO (Protameen)	Sorbitan Oleate	0.20
Parsol MCX (Roche Vitamins, Inc.)	Ethylhexyl Methoxycinnamate	1.00
Lipowax D (Lipo)	Cetearyl Alcohol & Ceteareth-20	2.00
Schercemol 105 (Scher)	Isodecyl Neopentanoate	2.00
Cetearyl Alcohol 50/50 (Rita)	Cetearyl Alcohol	1.50
Phase C—Add at 60°C		
Rapithix A-60 (ISP)	Sodium Polyacrylate, Hydrogenated Polydecene, Trideceth-6	1.50
Phase D—Add at 45°C		
Liquid Germall Plus (ISP)	Diazolidinyl Urea, IPBC	0.70
Fragrance	Fragrance	0.05
Fiberlon Y10 (LCW)	Nylon	0.01
	YIELD:	100.00

Adjust pH: 6.8-7.0

Procedure

Add purified water to main vessel and begin heating to 75° C. Begin moderate propeller stirring and add Syntran polymer and propylene glycol. In a separate vessel add Phase B ingredients and melt at 75-80° C. Stir until homogeneous. Add Phase B to Phase A with high shear stirring. Cool batch to 55° C. Add Phase C as batch thickens switch to side sweep agitation. Continue to cool batch to 40-45° C. Individually add Phase D ingredients. Stir and cool batch to room temperature.

2/2006

CREAMY ETHNIC GEL / STRAIGHTENER

Formulation F-18-85

A styling aide with medium control that smoothes hair and locks in a sleek, straight look. The formula is a light cream or gel. The package will be a pump or spray.

	<u>INCI Designation</u>	<u>Weight %</u>
Phase A		
Distilled Water	Water	86.20
Dissolvine Na2S (Akzo Nobel)	Disodium EDTA	0.05
Glycerin	Glycerin	5.00
Ultrez 21 (Noveon)	Acrylates/C10-30 Alkyl Acrylate	
	Crosspolymer	0.70
TEA 99%	Triethanolamine	0.70
Phase B		
SYNTRAN® PC 5208	Polyacrylate-15	2.00
SYNTRAN® PC 5400	Ammonium Acrylates Copolymer	4.50
Phase C		
Liquid Germall Plus (ISP)	Diazolidinyl Urea, IPBC	0.70
Fragrance	Fragrance	0.15
	YIELD:	100.00

Adjust pH: 6.6-6.9

2/2006

CONDITIONING/STYLING GEL & CURL ENHANCER

Formulation F-24-01

A styling aide that conditions and controls, delivering perfectly formed, frizz-free curls. The formula will provide a medium-hold for lasting definition. The package will be a pump or spray.

	<u>INCI Designation</u>	<u>Weight %</u>
Phase A		
Distilled Water	Water	86.05
Dissolvine Na2S (Akzo Nobel)	Disodium EDTA	0.05
Glycerin	Glycerin	3.00
Ultrez 21 (Noveon)	Acrylates/C10-30 Alkyl Acrylate	0.80
DC 200 Fluid-20 Cst (Dow Corning)	Dimethicone	1.50
DC 200 Fluid – 100 Cst (Dow Corning)	Dimethicone	0.50
TEA 99% (Dow Corning)	Triethanolamine	0.80
Phase B		
SYNTRAN® PC 5208	Polyacrylate-15	2.00
SYNTRAN® PC 5400	Ammonium Acrylates Copolymer	4.50
Phase C		
Liquid Germall Plus (ISP)	Diazolidinyl Urea, IPBC	0.70
Fragrance	Fragrance	0.10
	YIELD:	100.00
Adjust pH: 6.5-6.75		

Procedure

Add purified water to main vessel and begin heating to 30-35° C. Begin moderate agitation and add Dissolvine and glycerin. Slowly sift Ultrez 21 into water and stir until completely hydrated. Add dimethicones and stir with high shear until adequately dispersed. Add TEA, as batch thickens switch to side sweep agitation, stir until homogenous. Slowly add Syntran polymers, and stir until homogenous. Individually add Phase C ingredients. Stir and cool batch to room temperature.

2/2006

MOISTURIZING STYLING GEL

Formulation F-24-09

A styling aide with medium control that smoothes hair and locks in a sleek, straight look. The formula is a light cream or gel. The package will be a pump or spray.

	<u>INCI Designation</u>	<u>Weight %</u>
Phase A		
Distilled Water	Water	84.45
Dissolvine Na2S (Akzo Nobel)	Disodium EDTA	0.05
Glycerin	Glycerin	5.00
Butylene Glycol	Butylene Glycol	1.00
Ultrez 21 (Noveon)	Acrylates/C10-30 Alkyl Acrylate	
	Crosspolymer	0.80
TEA 99%	Triethanolamine	0.80
Phase B		
SYNTRAN® PC 5208	Polyacrylate-15	2.00
SYNTRAN® PC 5400	Ammonium Acrylates Copolymer	5.00
Phase C		
Liquid Germall Plus (ISP)	Diazolidinyl Urea, IPBC	0.70
Fragrance	Fragrance	0.10
	YIELD:	100.00
Adjust pH: 6.5 – 6.75		

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