

Category: Hair Care: **Root Touch Up Stick for Blondes**

Formula #LF1-174 [extra wax] November 1, 2017

Ingredient	INCI	Supplier	W/W%
Phase A			
Nulastic Slip D99-8	Isononyl Isononanoate (and) Bis-Divinyl Dimethicone/PEG-10 Dimethicone Crosspolymer	Alzo International	34.0
Glycerin	Glycerin	Alzo International	9.8
Phase B			
Water DI	Water		9.8
FDC Yellow 5			0.7
Phase C			
Dermol DGDIS	Polyglyceryl-2 Diisostearate	Alzo International	5.9
Dermowax BB	Behenyl Behenate	Alzo International	5.9
Performacol 350	C20-40 Alcohols	New Phase	7.8
SP 88	Microcrystalline Wax	Strahl and Pitsch	3.0
SP1026	Ozokerite Wax	Strahl and Pitsch	3.0
Polyderm PPI-CO200	PEG-200 Hydrogenated Castor Oil/IPDI Copolymer	Alzo International	9.8
Phase D			
INBP50Y5A	Yellow 5 Lake (And) Isononyl Isononanoate (And) Isopropyl Myristate (And) Stearalkonium Hectorite (And) Isopropyl Titanium Triisostearate (And) Propylene Carbonate (And) Polyhydroxystearic Acid	KOBO Products	4.9
Polyderm PPI-CO40	PEG-40 Hydrogenated Castor Oil/IPDI Copolymer	Alzo International	4.9
Phase E			
Preservative			0.5
Total			100

- 5) Add phase D to C (the pigment grinds and the PPI-CO 40) after Phase C waxes melt.
- 6) Add B+A to Phase C+D Maintaining the temperature and heat to 75⁰C. Pour into mold and chill until firm.

Alzo Product Benefits:

This root touch up stick has the unique advantage of containing both hair colorants as well as iron oxide colorants. The **NuLastic Slip D99-9** elastomer allows incorporation of both water and glycerin and conditions the hair.

The **Dermol DGDIS** and **Dermowax BB** both contribute to smooth application of the colorants on the hair shaft.

Polyderm PPI-CO 200 aids in the stability of the formula.

Manufacturing Procedure:

- 1) Disperse Glycerin into the Elastomer and mix until smooth [Phase A]
- 2) Dissolve the hair colorants into the water Phase B
- 3) Add Phase B to Phase A and mix until homogeneous.
- 4) In a separate beaker mix and melt to 60-70⁰C Phase C