

## CA 1053 Water Proof Liquid Foundation

| Ingredients     | %(w/w) | Functions        | INCI designation                                                                                                                                                      | Supplier   |
|-----------------|--------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>Phase 1</b>  |        |                  |                                                                                                                                                                       |            |
| Deionised water | 43.41  |                  |                                                                                                                                                                       |            |
| Lucentite SWN   | 2      | Suspending agent | Lithium Magnesium Sodium Silicate                                                                                                                                     | Kobo       |
| <b>Phase 2</b>  |        |                  |                                                                                                                                                                       |            |
| Deionised water | 20     |                  |                                                                                                                                                                       |            |
| Disodium EDTA   | 0.1    | Chelating agent  |                                                                                                                                                                       |            |
| Xanthan Gum     | 0.4    | Gelling agent    |                                                                                                                                                                       |            |
| <b>Phase 3</b>  |        |                  |                                                                                                                                                                       |            |
| WE 70U          | 6      | Coloring agent   | Titanium Dioxide (and)<br>Polyglyceryl-4 Isostearate (And)<br>Cetyl PEG/Ppg-10/1 Dimethicone<br>(And) Hexyl Laurate (and)<br>Isopropyl Titanium Triisostearate        | Kobo       |
| WE 55Y          | 0.23   | Coloring agent   | Iron Oxide (CI 77492) (and)<br>Polyglyceryl-4 Isostearate (And)<br>Cetyl PEG/Ppg-10/1 Dimethicone<br>(And) Hexyl Laurate (and)<br>Isopropyl Titanium Triisostearate   | Kobo       |
| WE 70R          | 0.05   | Coloring agent   | Iron Oxide (C.I. 77491) (And)<br>Polyglyceryl-4 Isostearate (And)<br>Cetyl PEG/Ppg-10/1 Dimethicone<br>(And) Hexyl Laurate (and)<br>Isopropyl Titanium Triisostearate | Kobo       |
| WE 70B          | 0.01   | Coloring agent   | Iron Oxide (C.I. 77499) (And)<br>Polyglyceryl-4 Isostearate (And)<br>Cetyl PEG/Ppg-10/1 Dimethicone<br>(And) Hexyl Laurate (and)<br>Isopropyl Titanium Triisostearate | Kobo       |
| Cocoate BG      | 4      | Wetting agent    | Butylene Glycol Cocoate                                                                                                                                               | Gattefosse |

*This formula is presented in good faith, and we believe it is correct, but no warranty as to accuracy of results, or fitness for a particular use is given, nor is freedom from patent infringement to be inferred. It's offered solely for your consideration, investigation and verification.*

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|---------------------------------|--------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>Phase 4</b>                  |        |                  |                                                                                                                                                |              |
| SPCAT-I2                        | 1      | Feeling agent    | Talc (and) Ethylene Mathacrylate Copolymer (and) Isopropyl Titanium Triisostearate                                                             | Kobo         |
| ASO-I2                          | 1      | Mattifying agent | Aluminium Starch Octenylsuccinate (and) Isopropyl Titanium Triisostearate                                                                      | Kobo         |
| SP-500                          | 1      | Feeling agent    | Nylon-12                                                                                                                                       | Kobo         |
| Sunshine Glitter White C80-3400 | 1      | Effect pigment   | Fluorophogopite (and) Titanium Dioxide                                                                                                         | Sun Chemical |
| <b>Phase 5</b>                  |        |                  |                                                                                                                                                |              |
| Hydrolactol 70                  | 4      | O/W emulsifier   | Glyceryl Stearate (and) Propylene Glycol Stearate (and) Glyceryl Isostearate (and) Propylene Glycol Isostearate (and) Oleth-25 (and) Ceteth-25 | Gattefosse   |
| Isostearyl Isostearate          | 4      | Emollient        | Isostearyl Isostearate                                                                                                                         | Gattefosse   |
| BC Volatile 5                   | 6      | Feeling agent    | Cyclomethicone                                                                                                                                 | Basildon     |
| BC 100cS                        | 1      | Feeling agent    | Dimethicone                                                                                                                                    | Basildon     |
| <b>Phase 6</b>                  |        |                  |                                                                                                                                                |              |
| Microcare MTP                   | 0.2    | Preservatives    |                                                                                                                                                |              |
| PF. CORS 10602                  | 0.6    | Fragrance        |                                                                                                                                                | Technico     |
| Florasun 90                     | 2      | Emollient        | Sunflower Oil                                                                                                                                  | Floratech    |
| Siltech CE-2000                 | 2      | Feeling agent    | Trioctyldodecyl citrate                                                                                                                        | Siltech      |
| <b>Total</b>                    | 100    |                  |                                                                                                                                                |              |

**Process:**

1. Disperse Lucentite SWN over the water. Let stand.
2. Dissolve Disodium EDTA and disperse Xanthan Gum over the water. Let stand.
3. Add Phase 1 into Phase 2 and stir until homogeneous.
4. Wet WE 70U, WE55Y, WE 70R and WE70B with Cocoate BG and stir until homogeneous.
5. Add Phase 4 into Phase 3 and stir until homogenous.
6. Then, add Phase 5 into Phase 3+4.
7. Add Phase 3+4+5 heated to 75-80°C into Phase 1+2 heated to 75-80°C with moderate stirring.
8. Cool while stirring.
9. Add in Phase 6 into Phase 1+2+3+4+5 at about 45-50°C and stir until homogenous.

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