



## Color Control Air Cushion Compact, Broad Spectrum SPF 50+, V4

- *Multi-tasking, silky liquid CC foundation* provides broad spectrum SPF 50+ protection, brightening, anti-aging and deep skin hydration in an easy-to-use compact sponge package.
- **Ggel 102V** stabilizes silicone component in the foundation for its suspending power.
- **Applecare PDS 300** delivers the flowable, light-weight liquid cushion foundation with luminous coverage.
- **Applecare PDS 300** and **Ggel 102V** enables the preparation of a low viscosity, light, and stable W/S foundation with high loading of non-surface treated pigments and mineral UV actives inside the compact sponge package.

#	INCI Name, (Trade Name)	%
1/A	Isononyl Isononoate	3.00
2	Butylene glycol dicaprylate/dicaprate	4.00
3	Octyl methoxycinnamate	7.00
4	<b>Ggel 102V</b>	<b>5.00</b>
5	<b>Applecare A-100/ Applecare PDS 300</b>	<b>1.72</b>
6	Acrylates/Ethylhexyl Acrylate/Dimethicone Methacrylate Copolymer (KP-578)	0.74
7	UV Grade Zinc Oxide (Zano 10 of Umicore)	9.00
8	UV Grade TiO <sub>2</sub> (STR-100C-LF of Kowa American Corp)	3.00
9	Pigment Grade TiO <sub>2</sub> ( PF 671 of Ishihara Corp)	6.25
10	Yellow Iron Oxide (non-surface treated)	1.46
11	Red Iron Oxide (non-surface treated)	0.62
12	Black Iron Oxide (non-surface treated)	0.18
13/B	PEG-10 Dimethicone (KF-6017, Shin-Etsu)	2.00
14	Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone (KF-6038, Shin-Etsu)	3.50
15/C	Cyclopentasiloxane	16.0
16	Sodium Chloride	0.80
17	Butylene Glycol	4.00
18	<b>PhytoCare-HA CG 1M</b>	<b>0.10</b>
20	Preservative (Euxyl PE 9010)	0.30
21	Water	30.3

### Keys for air cushion foundation

1. Low viscosity pigment oil phase :  
**Applecare A-100/ Applecare PDS 300**
2. Stable low viscosity W/S emulsion:
  - (a) Ggel 102V for its suspending power
  - (b) Choose the right W/S emulsifier
  - (c) Adjust the % of water and oil phases.

### Applechem Products

- **Applecare PDS 300:** COSMOS- approved, easy-to-use, completely natural pigment dispersion system with high quality and **COLOR STABILITY**, resulting in bright, intense, homogenous color throughout the make-up.
- **Ggel 102V:** A master gel of organo-modified clay in cosmetic oils which helps stabilize the W/S emulsion and pigment dispersion with a shear-thinning rheology and a smooth, light, silky sensory.  
 Typical dosage: 5 – 10% of the oil phase.
- **PhytoCare-HA CG 1M [Snow Mushroom (Tremella Funciformis Sporocarp) Extract]:** Natural substitute of bacterially-fermented hyaluronic acid, with benefits such as moisture restoration, anti-oxidation, anti-aging flexible film formation and strong tolerance under various temperature, pH levels, and salt concentration.

#### Features:

1. **Low viscosity lotion foundation. Viscosity @ 10 rpm: A: 4000 cP**
2. **UV Actives: 3.0% TiO<sub>2</sub>, 9.0% ZnO, 7.0% OMC**
3. **Broad Spectrum and SPF 50+**

#### Processing:

1. Add phase A to a beaker and homogenize with Silverson homogenizer at RT for 25-30 minutes at 3000-4000 RPMs.
  - a. Or it can be mixed with dispersion blade propeller and then fed through a 3 roll mill to refine pigment particle size.
4. Mix phase B separately then add to beaker while mixing with Silverson.
5. Allow phase A/B mixture to cool below 60C, add phase C and mix for 5 minutes
6. Mix NaCl, EDTA and preservative in water separately and heat to 40-50C: then add butylene glycol and PhytoCare-HA CG 1M as a slurry.
7. Move phase A/B/C mixture to a dispersion blade propeller and begin mixing at 1000-1200 RPMs at RT.
8. Slowly add phase D to batch while raising the mixing speed to 1800 RPMs.
9. Continue mixing for 10 minutes. Add fragrance if desired.