

# **SUNJIN**

# **GUIDE FORMULATION BOOK**

## **- Make up**

**SUNJIN BEAUTY SCIENCE**  
**AUG 2020**

# Water Foundation Pact SPF50 PA++++

SJF-1842 Water Foundation Pact, SPF50 PA++++\_ver1.0

New in 2018

| Phase | Ingredients          | INCI Name  | %    | Maker     |
|-------|----------------------|--|------|-----------|
| A     | EcoDropGel           | Polyglyceryl-4 Isostearate & Coco-Caprylate/Caprates & Disteardimonium Hectorite | 6.5  | Sunjin    |
|       | Parsol MCX           | Ethylhexyl Methoxycinnamate  | 7.5  | DSM       |
|       | Parsol EHS           | Ethylhexyl Salicylate  | 2    | DSM       |
|       | Parsol 340           | Octocrylene  | 2.5  | DSM       |
|       | Saboderm AB          | C12-15 Alkyl Benzoate  | 10   | Sabo      |
|       | BHB                  | butyloctyl salicylate  | 5    |           |
|       | SUNBEMT-S            | Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine                                   | 5    | Sunjin    |
|       | Candelilla Wax       | Candelilla Wax   | 5    |           |
|       | Microcrystalline Wax | Microcrystalline Wax   | 3    |           |
| B     | SUNZNO-NAS           | Zinc Oxide & Triethoxycaprylylsilane   | 5    | Sunjin    |
|       | SUNTITAN-AS          | Titanium dioxide & Alumina & Triethoxycaprylylsilane                             | 3.5  | Sunjin    |
|       | SUNIOY-AS            | Yellow Iron Oxide & Triethoxycaprylylsilane                                      | 0.6  | Sunjin    |
|       | SUNIOR-AS            | Red Iron Oxide & Triethoxycaprylylsilane   | 0.2  | Sunjin    |
|       | SUNIOB-AS            | Black Iron Oxide & Triethoxycaprylylsilane                                       | 0.1  | Sunjin    |
| C     | Marsh Mallow Powder  | HDI/ Trimethylol Hexyllactone Crosspolymer & Polymethyl Methacrylate             | 1    | Sunjin    |
| D     | EDTA-2Na             | Disodium EDTA  | 0.1  |           |
|       | NaCl                 | Sodium chloride  | 1    |           |
|       | Glycerin             | Glycerin   | 1    |           |
|       | 2,3-Butanediol H90   | 2,3-Butanediol   | 1    | GS Caltex |
|       | Phenoxyethanol       | Phenoxyethanol   | 0.5  |           |
|       | Water                | Aqua   | 39.5 |           |



# Silicone free, Physical filter free SPF30 PA3+

SJF-1932\_Silicone free, Physical filter free Water Drop BB SPF30 PA3+

New in 2019



|   | Ingredients    | INCI Name   | %     | Maker  |
|---|----------------|---|-------|--------|
| A | T80-AS         | Titanium dioxide & Triethoxy caprylylsilane                                     | 11.00 | Sunjin |
|   | SUNZnO OLEO200 | Zinc Oxide & Cethyl alcohole  | 3.00  | Sunjin |
|   | SUNIOY-AS      | Yellow Iron Oxide & Triethoxy caprylylsilane                                    | 1.15  | Sunjin |
|   | SUNIOR-AS      | Red Iron Oxide & Triethoxy caprylylsilane                                       | 0.25  | Sunjin |
|   | SUNIOB-AS      | Black Iron Oxide & Triethoxy caprylylsilane                                     | 0.10  | Sunjin |
| B | ECODROPGEL     | Polyglyceryl-4 Isostearate, Coco-Caprylate/Capratae, Distearidimonium Hectorite | 3.50  | Sunjin |
|   | Cetiol-C5C     | Coco-Caprylate/Capratae   | 14.00 |        |
|   | ISOLAN GI34    | Polyglyceryl-4 Isostearate  | 0.80  |        |
|   | Fragrance      | Fragrance   | 0.10  |        |
| C | Water          | Water   | 58.60 |        |
|   | 1,3-B.G.       | 1,3-B.G.  | 3.00  |        |
|   | Glycerin       | Glycerin  | 3.00  |        |
|   | NaCl           | Sodium chloride   | 0.70  |        |
|   | 1,2-Hexandiol  | 1,2-Hexandiol   | 0.70  |        |
|   | Sensiva SC50   | Ethyhexyl glycerin  | 0.10  |        |

# Water Drop BB SPF50+ PA4+

SJF-1841\_Water Drop BB Sun Protector SPF50+ PA4+\_ver 1.0

New in 2018



|   | Ingredients    | INCI Name   | %    | Maker  |
|---|----------------|---|------|--------|
| A | Ecodropgel     | Polyglyceryl-4 Isostearate, Coco-Caprylate/Capratae, Distardimonium Hectorite | 4    | Sunjin |
|   | Saboderm AB    | C12-15 Alkyl Benzoate   | 6    | Sabo   |
|   | Parsol MCX     | Ethylhexyl Methoxycinnamate   | 7.5  | DSM    |
|   | Parsol 340     | Octocrylene   | 3    | DSM    |
|   | Parsol EHS     | Ethylhexyl Salicylate   | 5    | DSM    |
|   | SUNBEMT-S      | Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine                                | 3    | Sunjin |
| B | TX-85          | Titanium dioxide & Silica & Dimethicone                                       | 5    | Sunjin |
|   | SUNZNO-NAS     | Zinc Oxide & Triethoxycaprylylsilane  | 10   | Sunjin |
|   | SUNTITAN-AS    | Titanium dioxide & Alumina & Triethoxycaprylylsilane                          | 3.5  | Sunjin |
|   | SUNIOY-AS      | Yellow Iron Oxide & Triethoxy caprylylsilane                                  | 0.44 | Sunjin |
|   | SUNIOR-AS      | Red Iron Oxide & Triethoxy caprylylsilane                                     | 0.16 | Sunjin |
|   | SUNIOB-AS      | Black Iron Oxide & Triethoxy caprylylsilane                                   | 0.2  | Sunjin |
| C | EDTA-2Na       | Disodium EDTA   | 0.1  |        |
|   | NaCl           | Sodium chloride   | 0.7  |        |
|   | Glycerin       | Glycerin  | 1.0  |        |
|   | Phenoxyethanol | Phenoxyethanol  | 0.5  |        |
|   | Water          | Aqua  | 49.9 |        |

# I+recipe Strobing primer

SJF-1743\_Strobing Primer\_ver 1.2

New in 2017



| Phase | Ingredients     | INCI Name  | %    |
|-------|-----------------|--|------|
| A     | D.I Water       | Aqua   | 20.0 |
|       | NaCl            | Sodium Chloride  | 1.0  |
|       | 1,3-BG          | Butylene Glycol  | 6.0  |
| B     | DC556           | Phenyl Trimethicone  | 20.0 |
|       | KF-995          | Cyclopentasiloxane   | 4.47 |
|       | HectoGel-D5     | Cyclopentasiloxane & Disteardimonium Hectorite & Propylene Carbonate | 14.0 |
|       | ABIL EM 90      | Cetyl PEG/PPG-10/1 Dimethicone                                       | 1.5  |
|       | KSG16           | Dimethicone & Dimethicone/vinyl dimethicone crosspolymer             | 18.0 |
|       | KF-6017         | PEG-10 Dimethicone   | 3.0  |
|       | COSMOL 222      | Diisostearyl Malate  | 6.0  |
| C     | Fragrance       | Fragrance  | 0.03 |
|       | Penoxy Ethanol  | Penoxy Ethanol   | 0.20 |
| D     | SUNPU-170       | HDI/Trimethylol Hexyllactone Crosspolymer & Silica                   | 2.0  |
|       | CQV 7401P (RED) | Synthetic Fluorophlogopite & Tin Oxide & Titanium Dioxide            | 1.8  |
|       | JH-Blue         | Mica & Poly methyl methacrylate & Titanium Dioxide                   | 2.0  |

# Essence Water Pact from SUNJIN SPF35, PA++

SJF-1632\_Water Foundation Pact\_ver1.2

|   | Trade Name     | INCI   | %   | Maker       |
|---|----------------|--|-----|-------------|
| A | WaterDropSil   | Dimethicone & Cyclopentasiloxane & Dimethicone/Vinyl Dimethicone Crosspolymer & PEG-10 Dimethicone | 6   | Sunjin      |
|   | DC 556         | Phenyltrimethicone   | 2   | Dow corning |
|   | DC 200F 10CS   | Dimethicone  | 1   | Dow corning |
|   | ABIL EM 90     | Cetyl PEG/PPG-10/1 Dimethicone   | 0   | Evonik      |
| B | SUNZNO-NAS     | Zinc Oxide & Triethoxycaprylylsilane   | 5   | Sunjin      |
|   | Saboderm AB    | C12-15 Alkyl Benzoate  | 10  | Sabo        |
| C | SUNTITAN-AS    | Titanium dioxide & Alumina & Triethoxycaprylsilane   | 3.5 | Sunjin      |
|   | SUNSIL 130SC   | Silica & Methicone   | 0.5 | Sunjin      |
|   | SUNMICA LL     | Mica & Lauroyl Lysine  | 1   | Sunjin      |
|   | SUNIOY AS      | Yellow Iron Oxide & Triethoxy caprylylsilane   | 0.6 | Sunjin      |
|   | SUNIOR AS      | Red Iron Oxide & Triethoxy caprylylsilane  | 0.2 | Sunjin      |
|   | SUNIOB AS      | Black Iron Oxide & Triethoxy caprylylsilane  | 0.1 | Sunjin      |
| D | EDTA-2NA       | Disodium EDTA  | 0.1 |             |
|   | NaCl           | Sodium chloride  | 1   |             |
|   | Glycerin       | Glycerin   | 1   |             |
|   | 2,3-BG         | 2,3-Butanediol   | 1   | GS Caltex   |
|   | Phenoxyethanol | Phenoxyethanol   | 0.5 |             |
|   | Water          | Aqua   | 43  |             |
| E | Parsol MCX     | Ethylhexyl Methoxycinnamate  | 7.5 | DSM         |
|   | Uvinul A Plus  | Diethylamino Hydroxybenzoyl Hexyl Benzoate   | 3.5 | BASF        |
|   | Candelilla Wax | Candelilla Wax   | 8   |             |
|   | Parsol EHS     | Ethylhexyl Salicylate  | 2   | DSM         |
|   | Parsol 340     | Octocrylene  | 2.5 | DSM         |

Starting Formula  
To Upgrade



# W/S BB cushion

## W/S BB Cushion

| Phase | Ingredients | INCI Name   | %   |
|-------|-------------|---|-----|
| A     | D.I Water   | Water   | 37  |
|       | 2,3 BG      | Butylene Glycol   | 7   |
|       | NaCl        | Sodium Chloride   | 1   |
| B     | MLB-S       | Cyclopentasiloxane & PEG-10 Dimethicone & Disteardimonium Hectorite | 5   |
|       | KF-995      | Cyclopentasiloxane  | 13  |
|       | Cetiol CC   | Dicaprylyl Cabonate   | 4   |
|       | Parsol MCX  | Ethylhexyl Methoxycinnamate   | 5   |
|       | 10cs        | Dimethicone   | 3   |
|       | ININ        | Isononyl isononanoate   | 5.5 |
| C     | TX-85       | Titanium Dioxide & Silica & Dimethicone                             | 7.1 |
|       | T80-AS      | Silica & Titanium Dioxide & Triethoxycaprylylsilane                 | 7.1 |
|       | SUNIOY-AS   | Iron Oxide & Triethoxycaprylylsilane                                | 1.3 |
|       | SUNIOR-AS   | Iron Oxide & Triethoxycaprylylsilane                                | 0.4 |
|       | SUNIOB-AS   | Iron Oxide & Triethoxycaprylylsilane                                | 0.2 |
|       | SUNTALC-AS  | Talc & Triethoxycaprylylsilane                                      | 1.7 |
|       | SUNTITAN-AS | Titanium Dioxide & Triethoxycaprylylsilane                          | 1.7 |

# Tested W/O formula

## W/S BB cream guide formulation

| Phase       | Ingredients        | INCI Name                                    | %                           | Maker     | #1     | #2 | #3 |   |
|-------------|--------------------|--|-----------------------------|-----------|--------|----|----|---|
| Color Phase | Tested TiO2        | MT-700Z                                      | TiO2, Alumina, Stearic Acid | 14.2      | Tayca  | ✓  |    |   |
|             |                    | XTP-1  | TiO2, Alumina, Stearic Acid |           | Croda  |    | ✓  |   |
|             |                    | TA-90  | TiO2, Alumina, Stearic Acid |           | SUNJIN |    |    | ✓ |
|             | IOY AS             | Yellow Iron Oxide & Triethoxy caprylylsilane | 1.3                         | SUNJIN    |        |    |    |   |
|             | IOR AS             | Red Iron Oxide & Triethoxy caprylylsilane    | 0.4                         | SUNJIN    |        |    |    |   |
|             | IOB AS             | Black Iron Oxide & Triethoxy caprylylsilane  | 0.2                         | SUNJIN    |        |    |    |   |
|             | TALC (Suntalc-AS)  | Talc & Triethoxy caprylylsilane              | 1.7                         | SUNJIN    |        |    |    |   |
| DC345       | Cyclopentasiloxane | 7  | SUNJIN                      |           |        |    |    |   |
| Oil Phase   | ABIL EM90          | Cetyl PEG/PPG-10/1 Dimethicone               | 3                           | EVONIK    |        |    |    |   |
|             | Cetiol CC          | Dicaprylyl Carbonate                         | 4                           | BASF      |        |    |    |   |
|             | Benton 38VCG       | Disteardimonium Hectorite                    | 0.2                         | ELEMENTIS |        |    |    |   |
|             | Parsol MCX         | Ethylhexyl Methoxycinnamate                  | 5                           | DSM       |        |    |    |   |
|             | 10cs               | Siloxanes and Silicones, di-Me               | 3                           | KCC       |        |    |    |   |
|             | ININ               | Isonoyl Neopentanoate                        | 5.5                         | Dubois    |        |    |    |   |
|             | DC345              | Cyclopentasiloxane                           | 3                           | SHIN ETSU |        |    |    |   |
|             | KSG16              | Dimethylpolysiloxane, Organopolysiloxane     | 3                           | SHIN ETSU |        |    |    |   |
| Water Phase | D.I Water          | water  | 40.5                        |           |        |    |    |   |
|             | 1,3 BG             | Butylene glycol                              | 7                           |           |        |    |    |   |
|             | NaCl               | Sodium Chloride                              | 1                           |           |        |    |    |   |



# Moisturizing Effect Tested Formula

| Phase | Ingredients        | INCI Name  | %        |          |
|-------|--------------------|--|----------|----------|
|       |                    |  | SJF-1742 | SJF-1930 |
| A     | D.I Water          | Aqua   | 65.05    | 60.05    |
|       | Aristoflex Velvet  | Polyacrylate Crosspolymer-11   | 0.4      | 0.4      |
| B     | TPG                | Tripropylene Glycol  | 5        | 5        |
|       | 2,3-Butanediol H90 | 2,3-Butanediol   | 5        | 5        |
|       | 1,2-Hexanediol     | 1,2-Hexanediol   | 2        | 2        |
|       | Sensiva SC50       | Ethylhexylglycerin   | 0.05     | 0.05     |
|       | HAX                | Water & 2,3 Butanediol & Sodium Hyaluronate Crosspolymer & 1,2-Hexandiol & Ethylhexylglycerin  | 5        | 5        |
|       | AQUA PHYTOPLEX     | Glycerin, Limnanthes alba (Meadowfoam) Seed Oil, Canola Oil, Vitis Vinifera (Grape) Seed Oil, Helianthus Annuus Seed Oil, Calendula Oil, Cannabis sativa Seed Oil, Rosa Canina Fruit Oil, Argania Spinosa Kernel Oil, Polyglyceryl-10 Stearate | -        | 5        |
| C     | Silkflo 364NF      | Hydrogenated Polydecene  | 2        | 2        |
|       | Tegosoft DEC       | Diethylhexyl Carbonate   | 0.5      | 0.5      |
| D     | AQUA-BB            | Titanium Dioxide & Silica & Alumina & water & Polysorbate 60 & Oleth-10 & Yellow Iron Oxide & Red Iron Oxide & Black Iron Oxide & Triethoxycaprylylsilane & 1,2-Hexanediol   | 15       | 15       |

# Start to study with 'SJF-1642' SPF30 PA++

SJF-1642\_Water Drop BB Sun Protector SPF30 PA++\_ver 2.0

| Phase | Ingredients        | INCI Name  | %    | Maker       |
|-------|--------------------|--|------|-------------|
| A     | WaterDropSil       | Dimethicone & Cyclopentasiloxane & Dimethicone/Vinyl Dimethicone Crosspolymer & PEG-10 Dimethicone | 8    | Sunjin      |
|       | ISOLAN GI 34       | Polyglyceryl-4 Isostearate   | 0.5  | Evonik      |
|       | DC 556             | Phenyltrimethicone   | 2.5  | Dow corning |
|       | SF1000N – 2cst     | Dimethicone  | 1    | KCC         |
|       | KF-995             | Cyclopentasiloxane   | 8    | Shin-etsu   |
|       | Parsol MCX         | Ethylhexyl Methoxycinnamate  | 7    | DSM         |
| B     | TX-85              | Titanium dioxide & Silica & Triethoxycaprylylsilane  | 3    | Sunjin      |
|       | SUNZNO-NAS         | Zinc Oxide & Triethoxycaprylylsilane   | 8    | Sunjin      |
|       | SUNTITAN-AS        | Titanium dioxide & Alumina & Triethoxycaprylylsilane   | 3.5  | Sunjin      |
|       | SUNSIL-130SC       | Silica & Methicone   | 0.5  | Sunjin      |
|       | SUNMICA-LL         | Mica & Lauroyl Lysine  | 0.6  | Sunjin      |
|       | SUNIOY-AS          | Yellow Iron Oxide & Triethoxy caprylylsilane   | 0.4  | Sunjin      |
|       | SUNIOR-AS          | Red Iron Oxide & Triethoxy caprylylsilane  | 1.16 | Sunjin      |
|       | SUNIOB-AS          | Black Iron Oxide & Triethoxy caprylylsilane  | 0.2  | Sunjin      |
| C     | EDTA-2Na           | Disodium EDTA  | 0.1  |             |
|       | NaCl               | Sodium chloride  | 0.7  |             |
|       | Glycerin           | Glycerin   | 1.0  |             |
|       | Phenoxyethanol     | Phenoxyethanol   | 0.5  |             |
|       | Water              | Aqua   | 38.3 |             |
| D     | 2,3-Butanediol H90 | 2,3-Butanediol   | 8    | Sunjin      |
|       | Hybrid AE          | Polymethyl Methacrylate & Butyl Methoxydibenzoylmethane & Ethylhexyl Triazone                      | 8    | Sunjin      |

**Starting Formula  
To upgrade**

# Water Drop BB Sun Protector SPF30 PA++

SJF-1642\_Water Drop BB Sun Protector SPF30 PA++\_ver 2.0



| Phase | Ingredients        | INCI Name  | %    | Maker       |
|-------|--------------------|--|------|-------------|
| A     | WaterDropSil       | Dimethicone & Cyclopentasiloxane & Dimethicone/Vinyl Dimethicone Crosspolymer & PEG-10 Dimethicone | 8    | SUNJIN      |
|       | ISOLAN GI 34       | Polyglyceryl-4 Isostearate   | 0.5  | Evonik      |
|       | DC 556             | Phenyltrimethicone   | 2.5  | Dow corning |
|       | SF1000N – 2cst     | Dimethicone  | 1    | KCC         |
|       | KF-995             | Cyclopentasiloxane   | 8    | Shin-etsu   |
|       | Parsol MCX         | Ethylhexyl Methoxycinnamate  | 7    | DSM         |
| B     | TX-85              | Titanium dioxide & Silica & Triethoxycaprylylsilane  | 3    | SUNJIN      |
|       | SUNZNO-NAS         | Zinc Oxide & Triethoxycaprylylsilane   | 8    | SUNJIN      |
|       | SUNTITAN-AS        | Titanium dioxide & Alumina & Triethoxycaprylylsilane   | 3.5  | SUNJIN      |
|       | SUNSIL 130SC       | Silica & Methicone   | 0.5  | SUNJIN      |
|       | SUNMICA LL         | Mica & Lauroyl Lysine  | 0.6  | SUNJIN      |
|       | SUNIOY AS          | Yellow Iron Oxide & Triethoxy caprylylsilane   | 0.44 | SUNJIN      |
|       | SUNIOR AS          | Red Iron Oxide & Triethoxy caprylylsilane  | 0.16 | SUNJIN      |
|       | SUNIOB AS          | Black Iron Oxide & Triethoxy caprylylsilane  | 0.2  | SUNJIN      |
| C     | EDTA-2Na           | Disodium EDTA  | 0.1  |             |
|       | NaCl               | Sodium chloride  | 0.7  |             |
|       | Glycerin           | Glycerin   | 1.0  |             |
|       | Water              | Aqua   | 38.8 |             |
| D     | 2,3-Butanediol H90 | 2,3-Butanediol   | 8    | GS Caltex   |
|       | Hybrid AE          | Polymethyl Methacrylate & Butyl Methoxydibenzoylmethane & Ethylhexyl Triazone                      | 8    | SUNJIN      |

**AQUA 40%**

**BB Cream**

38.8

## Process

1. Weigh B and mix it in the mixer.
2. Add 1) into A
3. Pre-mix D and then add it into C
4. Input 3) into 2) little by little (Make sure emulsification happens)  
At 300 rpm input 1 tenth the amount of 3)  
At 600 rpm input half of the amount remaining  
At 900 rpm input quarter of the amount remaining  
At 1100 rpm mix for 1min  
At 1400 rpm input the rest of the amount

## Tested condition

1. 500mL Beaker, 300g
2. Lab-Stirrer

# PA++++ Air Cushion

SJF1646\_PA++++ Air cushion\_ver 1.0

New in 2016

| Phase | Ingredients    | INCI Name   | %     |
|-------|----------------|---|-------|
| A     | D.I Water      | Aqua  | 33.30 |
|       | NaCl           | Sodium Chloride   | 1.0   |
|       | 1,3-BG         | Butylene Glycol   | 6.0   |
|       | Phenoxyethanol | Phenoxy Ethanol   | 0.5   |
| B     | Hybrid AM      | Polymethyl Methacrylate, Butyl Methoxydibenzoylmethane, 4-Methylbenzylidene Camphor | 8.0   |
|       | Dermofeel BGC  | Butylene Glycol Dicaprylate / Dicaprate   | 4.0   |
|       | DC556          | Phenyltrimethicone  | 3.0   |
|       | DC345          | Cyclomethicone  | 3.0   |
|       | KF-6038        | Lauryl PEG-9 Polydimethylsiloxylethyl Dimethicone                                   | 2.0   |
|       | KF-6017        | PEG-10 Dimethicone  | 3.0   |
| C     | IOY-AS         | Iron Oxide Yellow & Triethoxycaprylylsilane   | 0.95  |
|       | IOR-AS         | Iron Oxide Red & Triethoxycaprylylsilane  | 0.15  |
|       | IOB-AS         | Iron Oxide Black & Triethoxycaprylylsilane  | 0.1   |
|       | T-80AS         | TiO2 & Silica & Triethoxycaprylylsilane   | 7.0   |
|       | TX85           | TiO2 & Silica & Dimethicone   | 5.0   |
|       | Snowtitan AS   | TiO2 & Silica & Triethoxy caprylylsilane  | 7.0   |
|       | DC345          | Cyclomethicone  | 16.0  |

# Water drop W/S Velvet BB cream

SJF-1652\_Water drop Velvet BB cream\_D5 ver1.0

| Phase  | Ingredients                          | INCI Name  | %                                    | Maker       |
|--------|--------------------------------------|--|--------------------------------------|-------------|
| A      | WaterDropSil<br>Or<br>WaterDropSil-D | Dimethicone & Cyclopentasiloxane & Dimethicone/Vinyl Dimethicone Crosspolymer & PEG-10 Dimethicone   | 7                                    | Sunjin      |
|        | DC 556                               | Phenyltrimethicone   | 2.5                                  | Dow corning |
|        | DC 345                               | Cyclopentasiloxane   | 3                                    | Dow corning |
|        | DC 200F 10CS                         | Dimethicone  | 1                                    | Dow corning |
|        | ABIL EM 90                           | Cetyl PEG/PPG-10/1 Dimethicone   | 0.2                                  | Evonik      |
|        | KSG 16                               | Cyclopentasiloxane & Dimethicone/Vinyl Dimethicone Crosspolymer  | 1                                    | Shin-etsu   |
|        | B                                    | SUNZNO-NAS   | Zinc Oxide & Triethoxycaprylylsilane | 5.75        |
| DC 345 |                                      | Cyclopentasiloxane   | 4.25                                 | Dow corning |
| C      | SUNTITAN-AS                          | Titanium dioxide & Alumina & Triethoxycaprylsilane   | 3.5                                  | Sunjin      |
|        | SUNSIL 130SC                         | Silica & Methicone   | 0.5                                  | Sunjin      |
|        | SUNMICA LL                           | Mica & Lauroyl Lysine  | 0.6                                  | Sunjin      |
|        | SUNIOY AS                            | Yellow Iron Oxide & Triethoxy caprylylsilane   | 0.44                                 | Sunjin      |
|        | SUNIOR AS                            | Red Iron Oxide & Triethoxy caprylylsilane  | 0.16                                 | Sunjin      |
|        | SUNIOB AS                            | Black Iron Oxide & Triethoxy caprylylsilane  | 0.2                                  | Sunjin      |
| D      | Water                                | Aqua   | 66.24                                |             |
|        | NaCl                                 | Sodium chloride  | 0.7                                  |             |
|        | EDTA-2NA                             | Disodium EDTA  | 0.03                                 |             |
|        | Glycerin                             | Glycerin   | 1                                    |             |
|        | 1,3 Propanediol                      | Propanediol  | 1                                    |             |
|        | Extract Complex                      | Lilium Tigrinum Extract, Polygonatum Odoratum Extract, Paeonia albiflora root Extract, Rehmannia Glutinosa Root Extract, Nelumbo Nucifera Flower Extract | 0.5                                  |             |
|        | Phenoxyethanol                       | Phenoxyethanol   | 0.4                                  |             |
|        | Fragrance                            | Fragrance  | 0.03                                 |             |

**AQUA 70%**  
**BB Cream**

# Coconut Milk drop Velvet BB cream

SJF-1653\_Coconut Milk Drop Velvet BB Cream\_D5 ver1.0



Milk Drop

| Phase | Ingredients     | INCI Name  | %     | Maker       |
|-------|-----------------|--|-------|-------------|
| A     | WaterDropSil    | Dimethicone & Cyclopentasiloxane & Dimethicone/Vinyl Dimethicone Crosspolymer & PEG-10 Dimethicone   | 7     | Sunjin      |
|       | DC 556          | Phenyltrimethicone   | 2.5   | Dow corning |
|       | DC 345          | Cyclopentasiloxane   | 3     | Dow corning |
|       | DC 200F 10CS    | Dimethicone  | 1     | Dow corning |
|       | ABIL EM 90      | Cetyl PEG/PPG-10/1 Dimethicone   | 0.6   | Evonik      |
|       | KSG 16          | Cyclopentasiloxane & Dimethicone/Vinyl Dimethicone Crosspolymer  | 1     | Shin-etsu   |
| B     | SUNZNO-NAS      | Zinc Oxide & Triethoxycaprylylsilane   | 5.75  | Sunjin      |
|       | DC 345          | Cyclopentasiloxane   | 4.25  | Dow corning |
| C     | SUNTITAN-AS     | Titanium dioxide & Alumina & Triethoxycaprylsilane   | 3.5   | Sunjin      |
|       | SUNSIL 130SC    | Silica & Methicone   | 0.5   | Sunjin      |
|       | SUNMICA LL      | Mica & Lauroyl Lysine  | 0.6   | Sunjin      |
|       | SUNIOY AS       | Yellow Iron Oxide & Triethoxy caprylylsilane   | 0.44  | Sunjin      |
|       | SUNIOR AS       | Red Iron Oxide & Triethoxy caprylylsilane  | 0.16  | Sunjin      |
|       | SUNIOB AS       | Black Iron Oxide & Triethoxy caprylylsilane  | 0.2   | Sunjin      |
| D     | Water           | Aqua   | 63.34 |             |
|       | NaCl            | Sodium chloride  | 0.7   |             |
|       | EDTA-2NA        | Disodium EDTA  | 0.03  |             |
|       | Glycerin        | Glycerin   | 1     |             |
|       | 1,3 Propanediol | Propanediol  | 1     |             |
|       | AQUA-MILKDRO P  | Titanium Dioxide & Silica & Alumina & Butylene Glycol & water & Poly sorbate 60 & Oleth-10 & Dimethicone & 1,2-Hexanediol                                | 2     | Sunjin      |
|       | Fruit Extract   | Cocos Nucifera (Coconut) Fruit Extract   | 0.5   |             |
|       | Extract Complex | Lilium Tigrinum Extract, Polygonatum Odoratum Extract, Paeonia albiflora root Extract, Rehmannia Glutinosa Root Extract, Nelumbo Nucifera Flower Extract | 0.5   |             |
|       | Phenoxyethanol  | Phenoxyethanol   | 0.4   |             |
|       | Fragrance       | Fragrance  | 0.03  |             |

**AQUA 63%**

**BB Cream**

# Milk Drop BB Sun Protector SPF30 PA++

## SJF-1655\_Milk Drop BB Sun Protector



| Phase | Ingredients        | INCI Name   | %    | Maker       |
|-------|--------------------|---|------|-------------|
| A     | WaterDropSil       | Dimethicone & Cyclopentasiloxane & Dimethicone/Vinyl Dimethicone Crosspolymer & PEG-10 Dimethicone                        | 8    | Sunjin      |
|       | ISOLAN GI 34       | Polyglyceryl-4 Isostearate  | 0.5  | Evonik      |
|       | DC 556             | Phenyltrimethicone  | 2.5  | Dow corning |
|       | SF1000N – 2cst     | Dimethicone   | 1    | KCC         |
|       | KF-995             | Cyclopentasiloxane  | 8    | Shin-etsu   |
|       | Parsol MCX         | Ethylhexyl Methoxycinnamate   | 7    | DSM         |
| B     | TX-85              | Titanium dioxide & Silica & Triethoxycaprylylsilane   | 3    | Sunjin      |
|       | SUNZNO-NAS         | Zinc Oxide & Triethoxycaprylylsilane  | 8    | Sunjin      |
|       | SUNTITAN-AS        | Titanium dioxide & Alumina & Triethoxycaprylylsilane  | 3.5  | Sunjin      |
|       | SUNSIL 130SC       | Silica & Methicone  | 0.5  | Sunjin      |
|       | SUNMICA LL         | Mica & Lauroyl Lysine   | 0.6  | Sunjin      |
|       | SUNIOY AS          | Yellow Iron Oxide & Triethoxy caprylylsilane  | 0.44 | Sunjin      |
|       | SUNIOR AS          | Red Iron Oxide & Triethoxy caprylylsilane   | 0.16 | Sunjin      |
|       | SUNIOB AS          | Black Iron Oxide & Triethoxy caprylylsilane   | 0.2  | Sunjin      |
| C     | EDTA-2Na           | Disodium EDTA   | 0.1  |             |
|       | NaCl               | Sodium chloride   | 0.7  |             |
|       | Glycerin           | Glycerin  | 1.0  |             |
|       | AQUA-MILKDROP      | Titanium Dioxide & Silica & Alumina & Butylene Glycol & water & Poly sorbate 60 & Oleth-10 & Dimethicone & 1,2-Hexanediol | 1.0  | Sunjin      |
|       | Water              | Aqua  | 37.8 |             |
| D     | 2,3-Butanediol H90 | 2,3-Butanediol  | 8    |             |
|       | Hybrid AE          | Polymethyl Methacrylate & Butyl Methoxydibenzoylmethacrylate & Ethylhexyl Triazone  | 8    | Sunjin      |

**AQUA 40%**

**BB Cream**

### Process

1. Weigh B and mix it in the mixer.
  2. Add 1) into A
  3. Pre-mix D and then add it into C
  4. Input 3) into 2) little by little (Make sure emulsification happens)
- At 300 rpm input 1 tenth the amount of 3)
- At 600 rpm input half of the amount remaining
- At 900 rpm input quarter of the amount remaining
- At 1100 rpm mix for 1min
- At 1400 rpm input the rest of the amount

### Tested condition

1. 500mL Beaker, 300g
2. Lab-Stirrer

# Aurora Brilliant Primer SPF32 PA++

SJF-1741\_Aurora Brilliant Primer\_ver1.0

New in 2017

| Phase | Ingredients                                       | INCI Name  | %    |
|-------|---|--|------|
| A     | D.I Water   | Aqua   | 29.5 |
|       | NaCl  | Sodium Chloride  | 1.0  |
|       | 1,3-BG  | Butylene Glycol  | 6.0  |
| B     | DC556   | Phenyl Trimethicone  | 5.0  |
|       | Parsol MCX  | Ethylhexyl Methoxycinnamate  | 7.0  |
|       | E-1000  | Isoamyl p-Methoxycinnamate   | 3.0  |
|       | KF-995  | Cyclopentasiloxane   | 17.0 |
|       | Bentone 38 V                                      | Disteardimonium Hectorite  | 1.25 |
|       | Cetiol C5C  | Coco-Caprylate/Caprate   | 3.75 |
|       | ABIL EM 90  | Cetyl PEG/PPG-10/1 Dimethicone                                     | 1.5  |
|       | KSG16   | Dimethicone, Dimethicone/vinyl dimethicone crosspolymer            | 10.0 |
|       | KF-6017   | PEG-10 Dimethicone   | 3.0  |
|       | TINOSORB-S  | Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine                     | 1.2  |
| C     | Marsh mallow powder                               | HDI/Trimethylol Hexyllactone Crosspolymer, Polymethyl Methacrylate | 4.8  |
|       | CQV PEARL PIGMENT (Cosmetica® Super Gold N-5001S) | Mica, Titanium Dioxide, Tin Oxide                                  | 1.5  |
|       | CQV PEARL PIGMENT (Sharon® Glitter Red 7401E)     | Synthetic Fluorphlogopite, Titanium Dioxide, Tin Oxide             | 1.5  |
|       | JH-Blue   | PMMA, Mica, Titanium Dioxide                                       | 3.0  |



# 1 Phase Water Blend Foundation



| Phase | Ingredients        | INCI Name  | SJF-1742<br>BASC    | SJF-1930     | SJF-1931<br>UV | Maker     |
|-------|--------------------|--|---------------------|--------------|----------------|-----------|
| A     | D.I Water          | Aqua   | 70.05               | 60.05        | 61.05          |           |
|       | Pemulen TR2        | Acrylates/C10-30 Alkyl acrylate crosspolymer   |                     |              | 0.2            | Lubrizol  |
|       | Aristoflex Velvet  | Polyacrylate Crosspolymer-11   | 0.4                 | 0.4          |                | Clariant  |
| B     | TPG                | Tripropylene Glycol  | 10                  | 5            |                | SKC       |
|       | 2,3-Butanediol H90 | 2,3-Butanediol   |                     | 5            |                | GS Caltex |
|       | 1,2-Hexanediol     | 1,2-Hexanediol   | 2                   | 2            | 2              |           |
|       | Sensiva SC50       | Ethylhexylglycerin   | 0.05                | 0.05         | 0.05           | Schülke   |
|       | HAX                | Water & 2,3 Butanediol & Sodium Hyaluronate Crosspolymer & 1,2-Hexandiol & Ethylhexylglycerin  |                     | 5            |                | SUNJIN    |
|       | AQUA PHYTOPLEX     | Glycerin, Limnanthes alba (Meadowfoam) Seed Oil, Canola Oil, Vitis Vinifera (Grape) Seed Oil, Helianthus Annuus Seed Oil, Calendula Oil, Cannabis sativa Seed Oil, Rosa Canina Fruit Oil, Argania Spinosa Kernel Oil, Polyglyceryl-10 Stearate |                     | 5            |                | SUNJIN    |
|       |                    |  |                     |              |                |           |
| C     | Silkflo 364NF      | Hydrogenated Polydecene  | 2                   | 2            |                | Vantage   |
|       | Tegosoft DEC       | Diethylhexyl Carbonate   | 0.5                 | 0.5          |                | Evonik    |
|       | Parsol HMS         | Homosalate   |                     |              | 7.5            | DSM       |
|       | Parsol EHS         | Ethylhexyl Salicylate  |                     |              | 2              | DSM       |
|       | Parsol 340         | Octocrylene  |                     |              | 1              | DSM       |
| D     | AQUA-BB            | Titanium Dioxide & Silica & Alumina & water & Polysorbate 60 & Oleth-10 & Yellow Iron Oxide & Red Iron Oxide & Black Iron Oxide & Triethoxycaprylylsilane & 1,2-Hexanediol   | 15                  | 15           | 7              | SUNJIN    |
|       | AQUA-TITAN         | Titanium Dioxide & Silica & Alumina & water & Polysorbate 60 & Oleth-10 & Triethoxycaprylylsilane & 1,2-Hexanediol   |                     |              | 2              | SUNJIN    |
|       | TPG                | Tripropylene Glycol  | <b>More</b>         | <b>SPF30</b> | 10             | SKC       |
|       | Hybrid AE          | Polymethyl Methacrylate & Butyl Methoxy Dibenzoylmethane & Ethyl Hexyl Triazone  | <b>moisturizing</b> | <b>PA10</b>  | 7              | SUNJIN    |
| E     | TEA                | Triethanolamine  |                     |              | 0.2            |           |

# Water Blend Foundation

SJF-1742\_Water Blend Foundation\_ver 1.2

New in 2017

| Phase | Ingredients       | INCI Name  | %    |
|-------|-------------------|--|------|
| A     | D.I Water         | Aqua   | 69.1 |
|       | Aristoflex Velvet | Polyacrylate Crosspolymer-11   | 0.4  |
|       | TPG               | Tripropylene Glycol  | 10   |
| B     | Silkflo 364NF     | Hydrogenated Polydecene  | 2    |
|       | Tegosoft DEC      | Diethylhexyl Carbonate   | 0.5  |
|       | 1,2 Hexandiol     | 1,2 Hexandiol  | 2    |
| C     | SUNPMMA-COCO170   | Methyl Methacrylate Crosspolymer   | 1    |
|       | AQUA-BB(신규)       | Titanium Dioxide & Silica & Alumina & water & POLYSORB ATE 60 & OLETH-10 & Yellow Iron Oxide & Red Iron Oxide & Black Iron Oxide & Triethoxy caprylylsilane & 1,2-Hexanediol | 15   |

# Calamine Zinc Tone up Cream

SJF-1746\_Calamine Zinc Tone up Cream\_ver1.0

New in 2017

| Phase | Ingredients      | INCI Name  | %    |
|-------|------------------|--|------|
| A     | D.I Water        | Aqua   | 28.0 |
|       | NaCl             | Sodium Chloride  | 1.0  |
|       | 1,3-BG           | Butylene Glycol  | 6.0  |
| B     | DC556            | Phenyl Trimethicone  | 4.47 |
|       | KF-995           | Cyclopentasiloxane   | 8.0  |
|       | HectoGel-D5      | Cyclopentasiloxane & Disteardimonium Hectorite & Propylene Carbonate | 17.0 |
|       | ABIL EM 90       | Cetyl PEG/PPG-10/1 Dimethicone                                       | 1.5  |
|       | KSG16            | Dimethicone, Dimethicone/vinyl dimethicone crosspolymer              | 15.0 |
|       | KF-6017          | PEG-10 Dimethicone   | 3.0  |
| C     | Fragrance        | Fragrance  | 0.03 |
|       | Penoxy Ethanol   | Penoxy Ethanol   | 0.20 |
| D     | SUNZnO-SA(150nm) | Zinc Oxide & Triethoxycaprylylsilane                                 | 7.0  |
|       | SJ-Calamine      | Calamine   | 1.8  |
|       | KF-995           | Cyclopentasiloxane   | 7.0  |

# Water Foundation Pact SPF50, PA++++

SJF-1751 Water Foundation Pact, SPF50 PA++++\_ver1.0

New in 2017

| Phase | Ingredients          | INCI Name  | %   |
|-------|----------------------|--|-----|
| A     | Ecodropgel           | Coco-Caprylate/Caprata & Polyglyceryl-4 Isostearate & Distearidium Hectorite | 5   |
|       | GI34                 | Polyglyceryl-4 Isostearate   | 0.5 |
|       | Parsol MCX           | Ethylhexyl Methoxycinnamate  | 7.5 |
|       | Parsol EHS           | Ethylhexyl salicylate  | 2   |
|       | Neoheliopan 303      | Octocrylene  | 2.5 |
|       | Saboderm AB          | C12-15 Alkyl Benzoate  | 10  |
|       | BHB                  | butyloctyl salicylate  | 5   |
|       | SUNBEMT-S            | Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine                               | 5   |
|       | Candelilla Wax       | Candelilla Wax   | 5   |
|       | Microcrystalline Wax | Microcristallina cera  | 3   |
| B     | SUNZNO-NAS           | Zinc Oxide & Triethoxycaprylylsilane   | 5   |
|       | SUNTITAN-AS          | Titanium dioxide & Alumina & Triethoxycaprylylsilane                         | 3.5 |
|       | SUNIOY AS            | Yellow Iron Oxide & Triethoxycaprylylsilane                                  | 0.6 |
|       | SUNIOR AS            | Red Iron Oxide & Triethoxycaprylylsilane                                     | 0.2 |
|       | SUNIOB AS            | Black Iron Oxide & Triethoxycaprylylsilane                                   | 0.1 |
| C     | Marshmallow Powder   | HDI/ Trimethylol Hexyllactone Crosspolymer & Polymethyl Methacrylate         | 1   |
| D     | EDTA-2NA             | Disodium EDTA  | 0.1 |
|       | NaCl                 | Sodium chloride  | 1   |
|       | Glycerin             | Glycerin   | 1   |
|       | 1,3-BG               | 1,3-Butylene glycol  | 1   |
|       | Water                | Aqua   | 41  |



Water Drop

# Bounce-up Pact

2015\_Bounce-up Pact

New in 2015

| Phase | Ingredients         | INCI Name  | %     | Maker              |
|-------|---------------------|--|-------|--------------------|
| A     | MT-100SJ            | Titanium Dioxide & Aluminum Hydroxide & Stearic acid | 12.00 | Sunjin             |
|       | SUNTITAN-LL         | TiO2 & Lauroyl Lysine                                | 20.00 | Sunjin             |
|       | SUNMICA-LL          | Mica & Lauroyl Lysine                                | 13.20 | Sunjin             |
|       | SUNIOY-AS           | Iron Oxide Yellow & Triethoxycaprylylsilane          | 1.40  | Sunjin             |
|       | SUNIOR-AS           | Iron Oxide Red & Triethoxycaprylylsilane             | 0.30  | Sunjin             |
|       | SUNIOB-AS           | Iron Oxide Black & Triethoxycaprylylsilane           | 0.10  | Sunjin             |
|       | Marsh Mallow Powder | Urethane Acrylate                                    | 3.00  | Sunjin             |
| B     | FP-Glycerin         | Methyl Methacrylate Crosspolymer & Glycerin          | 10.00 | Sunjin             |
| C     | KSG-16              | Dimethicone & Vinyl Dimethicone Crosspolymer         | 20.00 | Shin-etsu          |
|       | DC 200F/100CS       | Dimethicone  | 12.00 | Dow corning        |
|       | DUB VCI-20          | Octyldodecyl Neopentanoate                           | 8.00  | Stearinerie dubois |

