

Formulation Example

MDA-P-173-01 SK 03 Hydro Smooth Primer NAT-PRIME

| Ingredients | Art. No. | INCI EU | [%] |
|---|-------------|--|-------|
| A | | | |
| RonaCare® Ectoin | 1.30200 (1) | ECTOIN | 1.00 |
| Glycerol anhydrous (vegetable) EMPROVE® bio | 1.37028 (1) | GLYCERIN | 3.00 |
| Solagum™ AX | (2) | XANTHAN GUM, ACACIA SENEGAL GUM | 0.30 |
| Sodium Gluconate | (3) | SODIUM GLUCONATE | 0.20 |
| Lexgard® Natural | (4) | GLYCERYL CAPRYLATE, GLYCERYL UNDECYLENATE | 1.00 |
| Water, demineralized | | AQUA | 51.50 |
| B | | | |
| Tegin® Pellets | (5) | GLYCERYL STEARATE SE | 3.00 |
| Oramix NS 10 | (2) | DECYL GLUCOSIDE | 3.00 |
| SustOleo™ BA | (4) | BRASSICA ALCOHOL | 4.00 |
| Lexfilm® Sun Natural | (6) | CAPRYLOYL GLYCERIN/SEBACIC ACID COPOLYMER | 3.00 |
| C | | | |
| RonaFlair® Flawless | 1.17789 (1) | SILICA, CI 77891, CI 77491 | 5.00 |
| RonaFlair® LDP White | 1.17755 (1) | SODIUM POTASSIUM ALUMINUM SILICATE, CI 77891, SILICA | 4.00 |
| LexFeel Natural | (6) | HEPTYL UNDECYLENATE | 10.00 |
| Miglyol® T-C7 | (7) | TRIHEPTANOIN | 10.00 |

Procedure:

1. Disperse Solagum AX in water of phase A and add the rest of the ingredients of phase A while stirring until dissolved.
2. Heat phase A to 80°C
3. Combine phase C and disperse Ronaflair® fillers, until homogeneous (e.g. Speedmixer®)
4. Add phase B into phase C and heat to 80°C
5. Add phase B/C to phase A while stirring, @ 60°C homogenize with U-Turrax T-25 at 8000rpm for 3 minutes
6. Cool down to 40°C while stirring and adjust pH to 5-5,2

Notes:

Appearance: light beige-offwhite lotion

pH value: 5 - 6 (23°C)

Viscosity: 45000 mPas (Brookfield DV-I, Helipath spindle C, 10 rpm) at 23°C

Stability: 3 months at RT, 40°C, 5°C, FTC (-5°C to 40°C) and 1 week at 50°C

ISO 16128 (NOC >99,9 incl. water)

Formulation can develop a stronger smell (raw materials) when stored >6 months - the use of fragrance is recommended.

Suppliers:

(1) Merck KGaA, Darmstadt, Germany / EMD Performance Materials Corp.

(3) Jungbunzlauer GmbH

(5) Evonik Nutrition & Care GmbH

(2) Seppic

(4) IMCD Deutschland GmbH

(6) INOLEX Chemical Company

Formulation Example

(7) IOI Oleo GmbH

Products are warranted to meet the specifications set forth on their label/packaging and/or certificate of analysis at the time of shipment or for the expressly stated duration. Merck Electronics KGaA ("Merck") provides information and advice on application technologies and relevant regulations based upon its current knowledge and opinion. MERCK MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE REGARDING OUR PRODUCTS, THEIR APPLICATION OR ANY INFORMATION PROVIDED IN CONNECTION THEREWITH. Merck shall not in any event be liable for incidental, consequential, indirect, exemplary or special damages of any kind resulting from any use or failure of the products. Customer is responsible for and must independently determine the suitability of Merck's products for its products, intended use and processes. The foregoing information and suggestions are also provided without warranty of non-infringement as to intellectual property rights of third parties and shall not be construed as any inducement to infringe the rights of third parties. Customer shall be responsible for obtaining any applicable third party intellectual property licenses. All sales are subject to Merck's complete Terms and Conditions of Sale. Prices are subject to change without notice. Merck reserves the right to discontinue products without prior notice. □

© 2023 Merck KGaA, Darmstadt, Germany and/or its affiliates. Merck, the vibrant M, Colorona, Timiron, Xirona, RonaFlair, Ronastar, Ronaflux, Candurin, Eusolex, Parteck, Oxyxex, RonaCare, IR3535, UV-Pearls, ASCIII, Luremin and Emblica are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates. All other trademarks are the property of their respective owners. Detailed information on trademarks is available via publicly accessible resources.