

Koboguard® Natural 3000

Natural Origin Oil Soluble Film Former Solutions



KOBOGUARD® NATURAL
3000-CCT70



KOBOGUARD® NATURAL
3000-NDA70

In response to the strong demand for natural ingredients, chemists have become devoted to developing green chemicals instead of petroleum derived ingredients.

The resin used for **KOBOGUARD® NATURAL 3000 Solutions** is extracted from Oleo Pine Resin collected from living pine trees in China, ensuring **sustainable** feedstock reserves. This resin (INCI Name: Glyceryl Hydrogenated Rosinate) is **highly hydrogenated** and has outstanding **resistance to oxidation** and discoloration. It is available as 70% solutions in natural-origin carriers.

| Product Name | INCI Name | Composition | Active % |
|--------------------------------------|--|------------------------------------|----------|
| KOBOGUARD® NATURAL 3000-CCT70 | <i>Glyceryl Hydrogenated Rosinate (And) Caprylic/Capric Triglyceride</i> | Non-volatile Liquid Film Former | 70 |
| KOBOGUARD® NATURAL 3000-NDA70 | <i>Glyceryl Hydrogenated Rosinate (And) C9-12 Alkane</i> | Volatile Liquid Film Former | 70 |

Physico-chemical characteristics of KOBOGUARD® NATURAL 3000 Resin

| Characteristics | KOBOGUARD® NATURAL 3000 |
|-----------------------|---------------------------------------|
| INCI Name | <i>Glyceryl Hydrogenated Rosinate</i> |
| Origin | <i>Pine Tree</i> |
| Specific Gravity | <i>1.060 - 1.090</i> |
| Softening Point Temp. | <i>75-110°C</i> |
| Flash Point | <i>Over 216°C</i> |

Product Benefits

- Extended wear-time (long-wear & semi-permanent formulations)
- Enhanced adhesion
- Uniform film application
- Water-repellency
- Adds gloss/shine
- Very good affinity to hair, skin, and nails
- Modifies viscosity
- Hydrophobic binder for pigments
- Hair binding agent
- Softens waxes
- Can act as a plasticizer for polymers
- Can aid in solubilizing organic additives
- Can be hot or cold processed in formulas
- Easy to use for formulation development
- Reduces mixing time for manufacturing

KOBO

USA

BRASIL

UK

FRANCE

ASIA PACIFIC

Applications

KOBOGUARD® NATURAL 3000-CCT70 and **-NDA70** solutions can be used in a wide variety of formulas, with similar or superior performance compared to existing synthetic ingredients.

| Applications | Benefits | Use Levels | Formulation Types |
|---|--|---|---|
| Mascaras, eyeliners, brows, eye shadow, under eye concealer, decorative hair products | Improve even application and extend the wear throughout the day or evening | 5 to 18% | O/W or W/O emulsions, powders, anhydrous gels or stick formulations |
| Lipsticks, lip glosses, and lip liners, lip balms and other lip care products | Improve even application and reduce color transfer, help retain moisture and protection | 5 to 20% | Anhydrous gels or stick formulations and also in O/W or W/O emulsions |
| Foundation make-up, primers or color correcting makeup | Serve as important binders either alone or in combination with other ingredients for pressed powders, improve water-resistance and contribute to long wear | 1 to 10% <i>(as binders for powders)</i> 5 to 15% | Emulsions or anhydrous systems, liquids, gels, sticks, or poured compact foundation |
| Sunscreens and sun care products | Improve leveling upon application and water-resistance contributing to longer wear time | 5 to 10% | Emulsions, sprays, sticks, and gels |
| Nail enamels or for decorative nail effects | Improve leveling upon application, suspension of pigments, and can help to plasticize nail polymers | 5 to 10% | Nail enamels, primers and top coats, as well as decorative nail products |
| Hot or cold wax depilatory products | Improve the removal of hair. They can form transparent cold wax products. Aid in softening hard waxes for hot wax | 25 to 50% | Waxes, creams, gels, or anhydrous liquid products |



KLP-319A-BR

Comfortable Liquid Lipstick

Part 1

- Cetiol® Ultimate - BASF: *Undecane (and) Tridecane* 29.57%
- RED 7CA D-ASGP7 - Kobo Products: *Red 7 Lake (And) Stearoyl Glutamic Acid (And) Polyhydroxystearic Acid* 14.63%
- Eutanol G - BASF: *Octyldodecanol* 9.02%
- SALACOS® HS-6C - Ikeda/Kobo Products: *Polyhydroxystearic Acid* 3.50%
- DICTYOPTERIS OIL - Innovasell Corporation: *Caprylic/capric triglyceride (and) Dictyopteris membranacea extract* 1.00%

Part 2

- Cera de Candelila - Engenharia das Essências: *Candelilla (Euphorbia Cerifera) Wax* 10.45%
- Plandool™-LG1 - Nippon Fine Chemical/Kobo Products: *Phytosteryl/Behenyl/Octyldodecyl Lauroyl Glutamate* 4.60%
- Cera de Carnauba - Fênix Ceras: *Carnauba Wax* 3.95%
- Estearato EMULSIONÁVEL "GMS SE" (Cera de Coco) - Engenharia das Essências: *Glyceryl Stearate* 2.75%
- Lexgard® Natural MB - Inolex: *Glyceryl Caprylate (and) Glyceryl Undecylenate* 0.92%

Part 3

- MSS-500/3H - Kobo Products: *Silica* 4.00%
- MSS-500/N - Kobo Products: *Silica* 2.75%

Part 4

- KOBOGUARD® NATURAL 3000-NDA70 - Kobo Products: *Glyceryl Hydrogenated Rosinate (And) C9-12 Alkane* 12.86%

Manufacturing Procedure

1. Mix part 1 until complete dispersion of pigments.
2. Add part 2 and heat to 75-80°C while mixing
3. Add Part 3 and mix
4. Add part 4 and mix until complete homogenization

Description

This is a long wear, matte and comfortable lipstick when applied. RED 7CA D-ASGP7 is an organic pigment treated with Kobo's superdispersible ASGP treatment. This hybrid treatment allows the powders to be dispersed easily with low energy with a creamy feel on skin. SALACOS® HS-6C helps with pigment dispersion. Also, this formula contains **KOBOGUARD® NATURAL 3000**, a film former of natural origin, that improves product wear. PLANDOOL™-LG1 provide skin barrier moisture protection and water-proofing properties. There are two microspheres in this formula, MSS-500/3H, a silica microsphere which helps to support the structure of the lipstick and also helps in preventing sweating and MSS-500/N, a low absorption silica that contributes to the great velvety feel.

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