

# Koboguard® 50AMP-G

## Water Phase Film Former



**KOBOGUARD®** film formers help to enhance adhesion and substantivity of the cosmetic formulation to the skin, lashes, hair or nail. They improve water resistance and rub resistance. They also have no odor, impart gloss and help suspend pigments while maintaining excellent color stability which makes them an ideal substitute for rosins and their counterparts.

**KOBOGUARD® 50AMP-G** is a paraben-free water dispersible film former that creates a flexible and long lasting film on the skin and gives water resistance properties with very low tackiness. It is easy to use by simply adding in the water phase. It is a glossy, milky white emulsion. Preferred usages are in water based gels and emulsions such as eyeliner, mascara, eyeshadow, foundation, water-based lip lacquer, sun care and skin care.

**INCI Name:** *Acrylates/Ethylhexyl Acrylate Copolymer (And) Water (And) Aminomethyl Propanol*  
**Active %:** 48



*Pictures of Eyeliner Control and Eyeliner with KOBOGUARD® 50AMP-G comparison of before (left) and after 15 wipes under running water (right)*



KEL-011B

### Shiny Eyeliner with KOBOGUARD® 50AMP-G

- Part 1**
- Deionized Water - Water 28.00%
  - Glycerin U.S.P. F.C.C 96% - Ruger Chemical: Glycerin 3.00%
  - Natrosol® 250HHR CS - Ashland: Hydroxyethylcellulose 1.00%

- Part 2**
- **KOBOGUARD® 50AMP-G** - Kobo Products: *Acrylates/Ethylhexyl Acrylate Copolymer (And) Water (And) Aminomethyl Propanol* 35.00%
  - **WBG55BNFSP** - Kobo Products: *Iron Oxides (CI 77499) (And) Water (And) Butylene Glycol (And) Cellulose Gum (And) Sodium Polyacrylate* 30.00%

- Part 3**
- Sepicide LD - SEPPIC: *Phenoxyethanol* 1.00%

- Part 4**
- **SESQ-MH5** - N&M/Kobo Products: *Polymethylsilsesquioxane (And) Silica* 2.00%

**Manufacturing Procedure**

1. For Part 1, premix Natrosol® 250 HHR CS with Glycerin and add this to water under propeller agitation. Heat to 90°C.
2. Begin cooling Part 1 while mixing to form a gel.
3. Add Part 2 to Part 1 at 40°C and mix until uniform.
4. Add Part 3 and continue to mix.
5. Slowly add Part 4 and mix until uniform.

**Description**

This shiny liquid eyeliner glides on easily for a precise line with an intense black color. It features **KOBOGUARD® 50AMP-G** which forms an easy to apply, long-lasting, shiny and water-resistant film. **WBG55BNFSP** is a black iron oxide paste which gives a high intensity, bluish-black color in comparison to other black iron oxides. **SESQ-MH5** is a hydrophilic polymer microsphere which helps provide a smooth, precise line and uniform application.

**KOBO**

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KMA-079E

# Wax-Free Gel Mascara

<b>Part 1</b>			
• Deionized Water - Water		23.00%	
• Trisodium EDTA - Protameen: <i>Trisodium EDTA</i>		0.10%	
<b>Part 2</b>			
• PROPYLENE GLYCOL - Ruger Chemical: <i>Propylene Glycol</i>		5.00%	
• Solagum™ AX - SEPPIC: <i>Acacia Senegal Gum (And) Xanthan Gum</i>		0.40%	
• Natrosol® 250 HHR CS - Ashland: <i>Hydroxyethylcellulose</i>		0.30%	
<b>Part 3</b>			
• NOMCORT® HK-P - Ikeda: <i>Polyglyceryl-10 Behenate/Eicosadiolate</i>		2.25%	
<b>Part 4</b>			
• Prisorine™ 3515 - Croda: <i>Isostearyl Alcohol</i>		1.00%	
• Tween™ 80 - Croda: <i>Polysorbate 80</i>		0.25%	
<b>Part 5</b>			
• Carbowax™ Sentry™ PEG 1450 - Dow Chemical: <i>Polyethylene Glycol</i>		2.00%	
• Deionized Water - Water		2.00%	
<b>Part 6</b>			
• Deionized Water - Water		19.42%	
• Eastman AQ™ 55S Polymer - Eastman Chemical: <i>Polyester-5</i>		0.80%	
<b>Part 7</b>			
• Lexgard® O - Inolex: <i>Caprylyl Glycol</i>		0.20%	
• S-6W-6 - Shin-Etsu: <i>Simethicone</i>		0.05%	
<b>Part 8</b>			
• BLACK NF - Kobo Products: <i>Iron Oxides (CI 77499)</i>		12.38%	
<b>Part 9</b>			
• Euxyl® PE 9010 - Schulke & Mayr: <i>Phenoxyethanol (And) Ethylhexylglycerin</i>		0.80%	
<b>Part 10</b>			
• MSP-822- Kobo Products: <i>Polymethyl Methacrylate</i>		5.00%	
• DSPCS/20N-I2 - Kobo Products: <i>Silica (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate</i>		2.00%	
<b>Part 11</b>			
• Zemea® - Du Pont & Tate: <i>Propanediol</i>		2.00%	
• AQUA KEEP 10SH-NFC - Sumitomo Seika/Kobo Products: <i>Sodium Acrylates Crosspolymer-2</i>		0.30%	
<b>Part 12</b>			
• KOBOGUARD® 50AMP-G - Kobo Products: <i>Acrylates/Ethylhexyl Acrylate Copolymer (And) Water (And) Aminomethyl Propanol</i>		19.75%	
• KNY-3D - Kobo Products: <i>Nylon-66 (And) Titanium Dioxide</i>		1.00%	
<b>Manufacturing Procedure</b>			
1. Combine Part 1 (main beaker) and begin mixing while heating to 45-50°C.			
2. Premix Part 2 and slowly add to Part 1. Heat to 75°C.			
3. Add Part 3 and mix until dissolved. Turn off heat.			
4. Premix Part 4 and add to main beaker.			
5. Premix Part 5 and add to main beaker.			
6. In side beaker, begin mixing Part 6 water and heat to 75°C.			
7. Once heated, add Eastman AQ™ 55S Polymer and mix until dissolved.			
8. Turn off heat, and add premixed Part 7, followed by Parts 8 and 9.			
9. Slowly add this phase to main beaker.			
10. Add Part 10 to batch.			
11. Premix Part 11 and add to batch.			
12. Premix Part 12 and add to batch.			
<b>Description</b>			
Wax-Free Gel Mascara provides weightless volume and extreme length to the lashes. It features KNY-3D fibers which give the lashes both length and volume. Kobo's Microsphere Complex, DSPCS/20N-I2, is lightweight and provides volume to the lashes without changing the curl angle throughout wear, while MSP-822 improves thickening properties. BLACK NF provides the intense, black color. AQUA KEEP 10SH-NFC gels the aqueous phase of the formula and works as rheology modifier. KOBOGUARD® 50AMP-G is used to increase length of the lashes, prevent smudging and flaking and also provide water resistance.			