

# K-RAY<sup>®</sup> Effect Pigments

## Global Program

Kobo offers a new range of **Effect pigments** that include the following series of products:

**K-RAY<sup>®</sup>:** Natural Mica Substrate  
**K-RAY<sup>®</sup> SM:** Synthetic Fluorophlogopite Substrate  
**K-RAY<sup>®</sup> G:** Calcium Borosilicate Substrate



All offer great versatility in a broad range of cosmetic applications, to impart color and visual effects to lip, face, eye and nail products, as well as toiletries, body makeup and sunscreens.

All K-RAY<sup>®</sup> Effect Pigments are available with various hydrophobic surface treatments, including Isopropyl Titanium Triisostearate (ITT) and Triethoxycaprylylsilane (11S) to enhance flow, dispersion, wear and appearance.

### Natural Mica

Product Name	Composition	Particle Size (µm)
<b>Earth Tones</b>		
<b>New</b> K-RAY <sup>®</sup> LIGHT GOLD	Mica, Red Iron Oxide	10-60
K-RAY <sup>®</sup> RED GOLD		
K-RAY <sup>®</sup> RICH GOLD		
K-RAY <sup>®</sup> LAVA SUNBURST		
<b>New</b> K-RAY <sup>®</sup> CYAN	Mica, Titanium Dioxide, Ferric Ammonium Ferrocyanide	10-60
<b>Earth Tones - Dark</b>		
K-RAY <sup>®</sup> DarkSilver	Mica, Titanium Dioxide, Black Iron Oxide	10-60
K-RAY <sup>®</sup> DarkGold		
K-RAY <sup>®</sup> DarkRed		
K-RAY <sup>®</sup> DarkViolet		
K-RAY <sup>®</sup> DarkBlue		
K-RAY <sup>®</sup> DarkGreen		
K-RAY <sup>®</sup> DarkCopper	Mica, Red Iron Oxide, Black Iron Oxide	
K-RAY <sup>®</sup> DarkBrown		
K-RAY <sup>®</sup> DarkMagenta	Mica, Titanium Dioxide, Black Iron Oxide, Carmine	
<b>Earth Tones - Magnetic</b>		
<b>New</b> K-RAY <sup>®</sup> MagSilver	Mica, Titanium Dioxide, Black Iron Oxide	10-60
<b>New</b> K-RAY <sup>®</sup> MagGold		
<b>New</b> K-RAY <sup>®</sup> MagRed		
<b>New</b> K-RAY <sup>®</sup> MagPurple		
<b>New</b> K-RAY <sup>®</sup> MagBlue		
<b>New</b> K-RAY <sup>®</sup> MagGreen		
<b>New</b> K-RAY <sup>®</sup> MagBronze		
<b>New</b> K-RAY <sup>®</sup> MagBrown	Mica, Red Iron Oxide, Black Iron Oxide	
<b>New</b> K-RAY <sup>®</sup> MagWine		
<b>Optical Variable Pigment (OVP)</b>		
K-RAY <sup>®</sup> PERPETUAL SUMMIT GOLD	Mica, Titanium Dioxide, Silica	10-60
K-RAY <sup>®</sup> PERPETUAL SUMMIT RED		
K-RAY <sup>®</sup> PERPETUAL SUMMIT VIOLET		
K-RAY <sup>®</sup> PERPETUAL SUMMIT BLUE		
K-RAY <sup>®</sup> PERPETUAL SUMMIT GREEN		



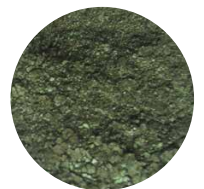
K-RAY<sup>®</sup> LIGHT GOLD



K-RAY<sup>®</sup> RICH GOLD



K-RAY<sup>®</sup> MagGold



K-RAY<sup>®</sup> MagGreen



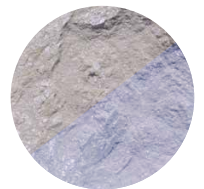
K-RAY<sup>®</sup> DarkSilver



K-RAY<sup>®</sup> DarkBlue



K-RAY<sup>®</sup> PERPETUAL SUMMIT VIOLET



K-RAY<sup>®</sup> PERPETUAL SUMMIT BLUE

**KOBO**

Technical Literature ref K-RAY Global - 004 - December 7, 2018

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## Synthetic Mica

Product Name	Composition	Particle Size (µm)
<b>White</b>		
K-RAY® SM MICRO WHITE	<i>Synthetic Fluorphlogopite, Titanium Dioxide</i>	1-15
K-RAY® SM SATIN WHITE		5-25
K-RAY® SM SNOW		10-60
K-RAY® SM WHITE SPARK		10-200
K-RAY® SM WHITE SP		100-1000
<b>Interference</b>		
K-RAY® SM GOLD SPARK	<i>Synthetic Fluorphlogopite, Titanium Dioxide</i>	10-200
K-RAY® SM RED SPARK		
K-RAY® SM VIOLET SPARK		
K-RAY® SM BLUE SPARK		
K-RAY® SM GREEN SPARK		
K-RAY® SM GOLD SP	<i>Synthetic Fluorphlogopite, Titanium Dioxide</i>	100-1000
K-RAY® SM RED SP		
K-RAY® SM VIOLET SP		
K-RAY® SM BLUE SP		
K-RAY® SM GREEN SP		
<b>Earth Tones</b>		
K-RAY® SM ROYAL GOLD	<i>Synthetic Fluorphlogopite, Titanium Dioxide, Red Iron Oxide</i>	10-60
K-RAY® SM GOLD GLITTER		10-100
K-RAY® SM GOLD FLASH		40-300
K-RAY® SM COPPER SP		100-700
K-RAY® SM ULTRA SPARKLE GOLD SP		50-1000
<span style="color: red;">New</span> K-RAY® SM MERLOT		<i>Synthetic Fluorphlogopite, Red Iron Oxide</i>
K-RAY® SM BRONZE SPARK	10-200	
K-RAY® SM ROUSSILLON SPARK		
K-RAY® SM UMBER SPARK		
K-RAY® SM BRONZE FLASH	40-300	
K-RAY® SM LAVA SAND	100-700	
<b>Black</b>		
K-RAY® SM FINE BLACK	<i>Synthetic Fluorphlogopite, Titanium Dioxide, Black Iron Oxide</i>	5-25
<b>Optical Variable Pigment (OVP)</b>		
K-RAY® SM PERPETUAL SPRING GLITTER	<i>Synthetic Fluorphlogopite, Titanium Dioxide, Red Iron Oxide, Silica</i>	10-100
K-RAY® SM PERPETUAL SUMMER GLITTER		
K-RAY® SM PERPETUAL AUTUMN GLITTER		
K-RAY® SM PERPETUAL WINTER GLITTER		



K-RAY® SM MERLOT



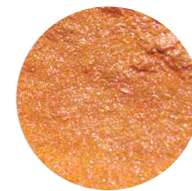
K-RAY® SM ROYAL GOLD



K-RAY® SM SNOW



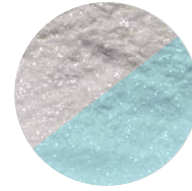
K-RAY® SM WHITE SPARK



K-RAY® SM PERPETUAL  
AUTUMN GLITTER



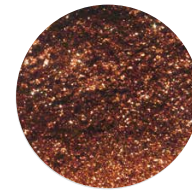
K-RAY® SM PERPETUAL  
WINTER GLITTER



K-RAY® SM BLUE SPARK



K-RAY® SM VIOLET SPARK



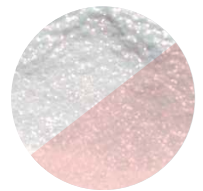
K-RAY® SM BRONZE FLASH



K-RAY® SM  
ROUSSILLON SPARK



K-RAY® G DIAMOND  
SPARKLE GOLD



K-RAY® G DIAMOND  
SPARKLE RED

## Borosilicate

Product Name	Composition	Particle Size (µm)
<b>Interference</b>		
<span style="color: red;">New</span> K-RAY® G DIAMOND SPARKLE WHITE	<i>Calcium Aluminum Borosilicate, Titanium Dioxide</i>	20-200
K-RAY® G DIAMOND SPARKLE GOLD		
K-RAY® G DIAMOND SPARKLE RED		
K-RAY® G DIAMOND SPARKLE VIOLET		
<span style="color: red;">New</span> K-RAY® G DIAMOND SPARKLE BLUE		