

# TECHNICAL DATA SHEET



# KF-8014

## Flexo Pearl AQ Coating

### PRODUCT DESCRIPTION

KF-8014 is formulated as an aqueous flexo coating containing a silver pearl pigment for use on SBS, Clay Coated Newsback and other paperboard or paper substrates. Typical applications would be for folding cartons, labels and other work that requires good gloss and rub resistance. For additional information regarding specific applications, please contact your KUSTOM SERVICES, INC. representative.

### PERFORMANCE CHARACTERISTICS

- Exhibits good gloss and clarity with a pearl sheen.
- Contains less than 1% VOC's
- Exhibits good rub and scuff resistance (Sutherland 50X4# face-to-face).
- Good press performance and drying speed.
- **"MAY BE SUITABLE"** for some hot foil stamping, imprinting and gluing applications. Before doing so, KF-8014 should be completely evaluated under production conditions using the actual substrate and ink, as materials for foil stamping, imprinting and gluing vary from supplier to supplier. Feel free to contact Kustom Group for additional information.

### PHYSICAL PROPERTIES

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- **Viscosity:** 25 - 28" #3 Zahn (Signature) @ 77° F
- **pH:** 8.0 - 8.5 @ 77° F
- **Solids:** 45 - 55% Method 24
- **Shelf Life:** One year (unopened container)

### Application Information

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- **Application Viscosity:** Stir before using. Use at room temperature (65-80°F).
- **Viscosity Adjustment:** Water or 80 water/20 alcohol blend to printing viscosity.
- **Drying Requirements:** For best results, aqueous coatings require a sufficient volume of warm air directed onto the coated surface.
- **Application Weight:** 0.8 - 1.2 pounds per 1000 square feet at a minimum.
- **Ink Formulary:** Limit wax to typical polyethylene to ensure proper inter-coat adhesion. Avoid the use of pigments that may bleed or change color when in contact with an alkaline product. As a precaution, always evaluate new ink formulations/technologies with this aqueous coating.

### FOR YOUR PROTECTION:

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning uses or applications are only the opinion of KUSTOM SERVICES, INC., and users should make their own tests to determine the suitability of this product for their own particular purposes. However, because of numerous factors affecting results, KUSTOM SERVICES, INC. makes no warranty of any kind, expressed or implied, including those of merchantability and fitness for particular purpose, other than that the material conforms to its applicable current Standard Specifications. Standard Specifications, although current at the time of publication, are subject to change without notice. Please refer to the MSDS for additional information.

DATE REVISED 02/05/2015

# Technical Data Sheet

## KS-405

### Pearlescent Litho UV OPV



#### Product Description

**KS-405** is formulated with pearlescent pigment to be used as a special effect press applied UV overprint varnish. **KS-405** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard substrate. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Pearlescent Effect
- Excellent litho properties
- Considered imprintable, foil-stampable, glueable, etc. (recommend testing first)

#### Physical Properties

- Viscosity 550 – 750 Poise (TA Rheometer)
- Specific Gravity 1.20
- Solids > 99%

#### End Use Considerations

**KS-405 contains pearlescent pigment that may settle. Care needs to be taken to ensure the pearl pigment stays in suspension by mixing thoroughly prior to use.** **KS-405** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV overprints may not exhibit complete intercoat adhesion over some substrates.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 01/17/2017

# Technical Data Sheet

## KS-408

### White Pearl UV Coating



#### Product Description

**KS-408** is formulated with a white special effect pigment to create a brilliant effect. **KS-408** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed and flexo printing on paper, film and paperboard substrates where excellent gloss and pearl effect are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Excellent white pearl effect
- Excellent cure response
- Considered imprintable, foil-stampable, glueable, etc.
- Typical recommended application volume is 7-12 BCM

#### Physical Properties

- Viscosity 25 - 30 sec. #3 Zahn
- Specific Gravity 1.15
- Solids > 99%

#### End Use Considerations

**KS-408 contains a pigment that may settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-408** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 02/13/2017

# Technical Data Sheet

## KS-413

### Radiant Red UV Coating

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#### Product Description

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**KS-413** is formulated with a red special effect pigment to create a brilliant effect. **KS-413** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed and flexo printing on paper, film and paperboard substrates where excellent gloss and pearl effect are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

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- Red pearl effect
- Excellent cure response
- Considered imprintable, foil-stampable, glueable, etc.
- Typical recommended application volume is 7-12 BCM

#### Physical Properties

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- Viscosity 25 - 30 sec. #3 Zahn
- Specific Gravity 1.13
- Solids > 99%

#### End Use Considerations

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**KS-413 contains a pigment that may settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-413** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

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Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

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DATE REVISED: 02/14/2017

# Technical Data Sheet

## KS-414

### Vivid Orange UV Coating



#### Product Description

**KS-414** is formulated with an orange special effect pigment to create a brilliant effect. **KS-414** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed and flexo printing on paper, film and paperboard substrates where excellent gloss and pearl effect are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Excellent rusty orange pearl effect
- Excellent cure response
- Considered imprintable, foil-stampable, glueable, etc.
- Typical recommended application volume is 7-12 BCM

#### Physical Properties

- Viscosity 25 - 30 sec. #3 Zahn
- Specific Gravity 1.13
- Solids > 99%

#### End Use Considerations

**KS-414 contains a pigment that may settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-414** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

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DATE REVISED: 02/14/2017

# Technical Data Sheet

## KS-416

### Glistening Gold UV Coating



#### Product Description

**KS-416** is formulated with a gold special effect pigment to create a brilliant effect. **KS-416** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed and flexo printing on paper, film and paperboard substrates where excellent gloss and pearl effect are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Excellent gold pearl effect
- Excellent cure response
- Considered imprintable, foil-stampable, glueable, etc.
- Typical recommended application volume is 7-12 BCM

#### Physical Properties

- Viscosity 25 - 30 sec. #3 Zahn
- Specific Gravity 1.14
- Solids > 99%

#### End Use Considerations

**KS-416 contains a pigment that may settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-416** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 02/14/2017

# Technical Data Sheet

## KS-418

### UV Sparkling White Imprintable Coating



#### Product Description

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KS-418 is a gloss UV coating that contains an effect pigment that provides a sparkling white effect with specks of red, blue and green. KS-418 is formulated as a receptive coating for application to select plastic stocks, paper and paperboard substrates or over dry ink where additional printing, foil-stamping, glueing or imprinting is desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

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- Excellent gloss and clarity
- Excellent imprintability
- Excellent cure response
- Foil-stampable
- Typical volume recommendation is 25 BCM anilox

#### Physical Properties

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- Solids > 99%
- Specific Gravity 1.18
- Viscosity 16-20" #4 Zahn

#### End Use Considerations

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KS-418 should be evaluated in the laboratory using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some ink systems. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

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Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Material Data Safety Sheet (MSDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the MSDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 03/06/2015

# Technical Data Sheet

## KS-449

### Pearl UV Coating

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#### Product Description

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KS-449 is formulated with a small amount of pearlescent pigment to be used as a special effect UV coating. KS-449 can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard substrates where excellent gloss and minimal gloss-back are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

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- Light pearlescent effect
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.
- Typical application volume is 7-12 BCM anilox

#### Physical Properties

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- Viscosity 25 - 28 sec. #4 Zahn
- Specific Gravity 1.14
- Solids > 99%

#### End Use Considerations

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**KS-449 contains pearlescent pigment that will settle. Care needs to be taken to ensure the pearl pigment stays in suspension by mixing thoroughly before and during press runs.** KS-449 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

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Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

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DATE REVISED: 02/21/2017



# Technical Data Sheet

## KS-452

### Glittering White Matte UV Coating



#### Product Description

**KS-452** is formulated with a white special effect pigment and silver glitter to create a brilliant effect. **KS-452** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed and flexo printing on paper, film and paperboard substrates where excellent gloss and minimal gloss-back are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Excellent white pearl effect
- Excellent cure response
- Considered imprintable, foil-stampable, glueable, etc.
- Typical recommended application volume is 40+ BCM anilox

#### Physical Properties

- Viscosity 25 - 30 sec. #4 Zahn
- Specific Gravity 1.12
- Solids > 99%

#### End Use Considerations

**KS-452 should be printed using an 18 BCM anilox or higher to maximize effect.**

**KS-452 contains pigment that may settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs. KS-452 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.**

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

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DATE REVISED: 02/21/2017

# Technical Data Sheet

## KS-454

### Angle Dependent Lilac UV Coating



#### Product Description

KS-454 is formulated with a color shift effect pigment to be used as a special effect UV coating. KS-454 can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard substrates where excellent gloss and minimal gloss-back are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Color changes from Lilac to Green to Blue depending on the angle
- Excellent cure response
- Considered imprintable, foil-stampable, glueable, etc.
- Typical recommended application volume of 7-14 BCM anilox

#### Physical Properties

- Viscosity 25 - 30 sec. #4 Zahn
- Specific Gravity 1.14
- Solids > 99%

#### End Use Considerations

**KS-454 contains an effect pigment that will settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** KS-454 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

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DATE REVISED: 02/21/2017

# Technical Data Sheet

## KS-466

### UV Gold Glitter Coating



#### Product Description

**KS-466** is formulated with a gold glitter effect pigment to be used as a special effect UV coating. **KS-466** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard substrates where excellent gloss and minimal gloss-back are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Excellent gold glitter effect
- Excellent cure response
- NOT considered imprintable, foil-stampable, glueable, etc.
- Recommended application is a 14 BCM anilox or higher greater effect

#### Physical Properties

- Viscosity 25 – 30 sec. #4 Zahn
- Specific Gravity 1.12
- Solids > 99%

#### End Use Considerations

**KS-466 contains a pigment that may settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** KS-466 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

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DATE REVISED: 02/21/2017

# Technical Data Sheet

## KS-490

### Silver Pearl Imprintable Gloss UV Coating



#### Product Description

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KS-490 is recommended for use where a silver pearl UV coating needs to be foil-stamped, glued or imprinted. Typical applications include paper and paperboard substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

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- High gloss and clarity
- Imprintable and foil stampable
- Excellent cure response
- Typical recommended application volume is 7-12 BCM

#### Physical Properties

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- Solids > 99%
- Specific Gravity 1.18
- Viscosity 27-30" #4 Zahn

#### End Use Considerations

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KS-490 should be evaluated in the laboratory using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some ink systems. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

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Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

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DATE REVISED: 03/13/2017

# Technical Data Sheet

## KS-512

### Sparkling Gold UV Coating



#### Product Description

**KS-512** is formulated with a special effect pigments to create a brilliant gold sparkle effect. **KS-512** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard substrates where excellent gloss and minimal gloss-back are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Excellent Gold sparkle effect
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.
- \*\* Recommended application is a 35 BCM anilox or higher and roll coater where heavy film thicknesses may be applied

#### Physical Properties

- Dynamic Viscosity 10- 20 Poise
- Specific Gravity 1.09
- Solids > 99%

#### End Use Considerations

**KS-512 contains a pigment that may settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-512** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

#### **FOR YOUR PROTECTION:**

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DATE REVISED: 03/13/2017

# Technical Data Sheet

## KS-528

Angle Dependent Blue/Violet  
Imprintable UV Coating



### Product Description

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KS-528 is formulated with a color changing effect pigment to be used as a special effect UV coating. KS-528 can be applied in-line over energy cured flexo and offset ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper, paperboard and certain non-porous substrates as well as certain films for flexo printing where excellent gloss and minimal gloss-back are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

### Performance Characteristics

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- Highest pigment concentration for intense color changes on the angle viewed
- Excellent cure response
- Imprintable, foil-stampable, glueable, etc. but **SHOULD BE TESTED** as pigment treatment may inhibit
- Typical recommended application volume is 7-12 BCM

### Physical Properties

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- Viscosity 15-20 sec. #4 Zahn
- Specific Gravity 1.18
- Solids > 99%

### End Use Considerations

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**KS-528 contains an effect pigment that will settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** KS-528 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

### Storage and Handling Information

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Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 03/13/2017

# Technical Data Sheet

## KS-535

Angle Dependent  
Metallic Red UV Coating



### Product Description

KS-535 is formulated with an effect pigment to be used as a special effect UV coating. KS-535 can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard substrates where excellent gloss and minimal gloss-back are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

### Performance Characteristics

- Color changes from Turquoise to Brilliant Silver to Metallic Red depending on the angle
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.
- Typical recommended application volume is 7-12 BCM

### Physical Properties

- Viscosity 25 - 30 sec. #4 Zahn
- Specific Gravity 1.15
- Solids > 99%

### End Use Considerations

**KS-535 contains an effect pigment that will settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** KS-535 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 03/13/2017

# Technical Data Sheet

## KS-542

Blue Cast OB  
Imprintable Gloss UV Coating

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### Product Description

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KS-542 is recommended for use in security applications requiring a clear appearance under normal conditions but cast blue upon to UV-A light. Typical applications include paper, paperboard and select plastic stocks. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

### Performance Characteristics

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- Excellent gloss and clarity
- Excellent imprintability
- Excellent cure response
- Strong UV-A response
- Good adhesion to select plastic stocks
- Foil-stampable

### Physical Properties

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- Viscosity 10 - 12 sec. #3 Zahn
- Specific Gravity 1.05
- Solids > 99%

### End Use Considerations

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KS-542 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some ink systems. A primer may be considered for use if this property needs to be improved.

### Storage and Handling Information

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Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 03/17/2017



# Technical Data Sheet

## KS-563

### BZP Free Silver Glitter UV Coating



#### Product Description

**KS-563** is formulated to provide a brilliant glitter effect. **KS-563** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed and flexo printing on paper, film and paperboard substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Excellent Glitter effect
- Benzophenone (BZP) free with excellent cure response
- Considered imprintable, foil-stampable, glueable, etc.
- \*\* Recommended application is a 20 BCM anilox or higher where heavy film thicknesses may be applied

#### Physical Properties

- Dynamic Viscosity 20 - 25" #5 Zahn
- Specific Gravity 1.14
- Solids > 99%

#### End Use Considerations

**KS-563 contains a pigment that may settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-563** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 05/22/2017

# Technical Data Sheet

## KS-572

### Silver Pearl Gloss UV Coating



#### Product Description

**KS-572** is formulated with a silver pearlescent pigment to be used as a special effect UV coating. **KS-572** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Pearlescent Effect
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.
- Typical recommended application volume is 7-12 BCM

#### Physical Properties

- Viscosity 30 - 35 sec. #3 Zahn
- Specific Gravity 1.12
- Solids > 99%

#### End Use Considerations

**KS-572 contains pearlescent pigment that will settle. Care needs to be taken to ensure the pearl pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-572** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 05/22/2017

# Technical Data Sheet

## KS-582

### BZP Free Angle Dependent Blue UV Coating



#### Product Description

KS-582 is formulated with a color shift effect pigment that when printed over dark colors provide a range of colors depending on the viewing angle. KS-582 can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard substrate. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Color changes from Turquoise to Blue to Violet depending on the angle
- Benzophenone (BZP) free with excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.
- Typical recommended application volume is 7-12 BCM

#### Physical Properties

- Viscosity 15 - 20 sec. #4 Zahn
- Specific Gravity 1.14
- Solids > 99%

#### End Use Considerations

**KS-582 contains an effect pigment that will settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** KS-582 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 05/22/2017

# Technical Data Sheet

## KS-598

### Bright Silver Glitter UV Coating



#### Product Description

**KS-598** is formulated with a metalized silver to provide a brilliant glitter effect. **KS-598** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed and flexo printing on paper, film and paperboard. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Excellent Glitter effect
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.
- \*\* Recommended application is a 50 BCM anilox or higher where heavy film thicknesses may be applied

#### Physical Properties

- Dynamic Viscosity 31 – 35" #4 Zahn
- Specific Gravity 1.17
- Solids > 99%

#### End Use Considerations

**KS-598 contains a pigment that may settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-598** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 05/22/2017

# Technical Data Sheet

## KS-615

### Sparkle Gloss UV Coating



#### Product Description

**KS-615** is formulated with a wide range micron special effect pigment to be used as a special effect UV coating. **KS-615** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Sparkle or glitter effect; recommend >35 BCM anilox
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.

#### Physical Properties

- Dynamic Viscosity 10- 15 Poise
- Specific Gravity 1.13
- Solids > 99%

#### End Use Considerations

**KS-615 contains a pigment that will settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-615** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 05/22/2017

# Technical Data Sheet

## KS-625

### Imprintable Silver Pearl Satin UV Coating



#### Product Description

KS-625 is formulated with silver pearlescent pigment to be used as a special effect satin UV coating. KS-625 can be applied in-line over UV or hybrid UV ink or offline over oil-based sheetfed ink where imprintability is required. Typical applications include commercial sheetfed printing on paper or paperboard substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Pearlescent effect
- Smooth satin finish
- Low thixotropy
- Excellent cure response
- Good imprintability, glueability and foil-stampability
- Typical recommended application volume is 7-12 BCM

#### Physical Properties

- Viscosity 13-15 sec. #5 Zahn
- Specific Gravity 1.19
- Solids > 99%

#### End Use Considerations

KS-625 should be evaluated in the laboratory using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some ink systems. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 07/07/2017

# Technical Data Sheet

## KS-627

### Crystal Silver UV Coating



#### Product Description

KS-627 is formulated with a silver effect pigment providing brilliance and depth to a printed piece, especially when exposed to sunlight. KS-627 can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard substrates where excellent gloss and minimal gloss-back are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Exterior grade pigment provides uv resistance and durability
- Brilliance and depth under multiple light sources
- Excellent cure response
- May be imprintable, foil-stampable, glueable, etc.
- Typical recommended application volume is 7-12 BCM

#### Physical Properties

- Viscosity 27 - 30 sec. #4 Zahn
- Specific Gravity 1.12
- Solids > 99%

#### End Use Considerations

**KS-627 contains an effect pigment that will settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** KS-627 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 07/07/2017

# Technical Data Sheet

## KS-631

Angle Dependent Blue  
UV Coating for In-Line HS Ink



### Product Description

KS-631 is formulated with an effect pigment that displays a different color depending on the angle viewed. KS-631 can be applied in-line over dry oil base HS ink. Typical applications include publication printing on paper and paperboard substrates where excellent gloss and minimal gloss-back are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

### Performance Characteristics

- Color changes from Turquoise to Blue to Violet depending on the angle
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.
- Typical recommended application volume is 7-12 BCM

### Physical Properties

- Viscosity 25 - 30 sec. #4 Zahn
- Specific Gravity 1.07
- Solids > 99%

### End Use Considerations

**KS-631 contains an effect pigment that will settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** KS-631 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 07/07/2017



# Technical Data Sheet

## KS-664

### Sparkle Kure UV Coating

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#### Product Description

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**KS-664** is formulated with a special effect pigment to be used as a special effect UV coating. **KS-664** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

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- Sparkle or glitter effect
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.
- Typical recommended application volume is 7-12 BCM

#### Physical Properties

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- Dynamic Viscosity 10- 15 Poise
- Specific Gravity 1.13
- Solids > 99%

#### End Use Considerations

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**KS-664 contains a pigment that will settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-664** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

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Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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# Technical Data Sheet

## KS-666

### Combination Glitter Kure UV Coating



#### Product Description

**KS-666** is formulated with two special effect pigments to be used as a special effect UV coating. **KS-666** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard substrates where excellent gloss and minimal gloss-back are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Excellent Glitter effect
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.
- \*\* Recommended application is a 40 BCM anilox or higher and roll coater where heavy film thicknesses may be applied

#### Physical Properties

- Dynamic Viscosity 10- 20 Poise
- Specific Gravity 1.17
- Solids > 99%

#### End Use Considerations

**KS-666 contains a pigment that may settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-666** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 07/07/2017

# Technical Data Sheet

## KS-675

### Angle Dependent Blue UV Coating



#### Product Description

KS-675 is formulated with an effect pigment to be used as a special effect UV coating. KS-675 can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Color changes from Turquoise to Blue to Violet depending on the angle
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.
- Typical recommended application volume is 7-12 BCM

#### Physical Properties

- Viscosity 27 - 30 sec. #4 Zahn
- Specific Gravity 1.17
- Solids > 99%

#### End Use Considerations

**KS-675 contains an effect pigment that will settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** KS-675 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 07/07/2017

# Technical Data Sheet

## KS-676

### Angle Dependent Red UV Coating



#### Product Description

KS-676 is formulated with an effect pigment to be used as a special effect UV coating. KS-676 can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Color changes from Red to Orange to Gold, depending on the angle
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.
- Typical recommended application volume is 7-12 BCM

#### Physical Properties

- Viscosity 10 - 15 sec. #3 Zahn
- Specific Gravity 1.17
- Solids > 99%

#### End Use Considerations

**KS-676 contains an effect pigment that will settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** KS-676 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 07/07/2017

# Technical Data Sheet

## KS-686

### Silver Pearl UV Coating



#### Product Description

KS-686 is formulated with silver pearlescent pigment to be used as a special effect UV coating. KS-686 can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Pearlescent effect
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.
- Typical recommended application volume is 7-12 BCM

#### Physical Properties

- Viscosity 27 - 30 sec. #4 Zahn
- Specific Gravity 1.17
- Solids > 99%

#### End Use Considerations

**KS-686 contains pearlescent pigment that will settle. Care needs to be taken to ensure the pearl pigment stays in suspension by mixing thoroughly before and during press runs.** KS-686 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 07/07/2017

# Technical Data Sheet

## KS-686LV

### Lower Viscosity Silver Pearl UV Coating



#### Product Description

KS-686LV is formulated with silver pearlescent pigment to be used as a special effect UV coating. KS-686LV can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed and flexo printing on paper, paperboard and select film substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Silver pearlescent effect
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.
- Typical recommended application volume is 7-12 BCM

#### Physical Properties

- Viscosity 26 - 30 sec. #4 Zahn
- Specific Gravity 1.17
- Solids > 99%

#### End Use Considerations

**KS-686LV contains pearlescent pigment that will settle. Care needs to be taken to ensure the pearl pigment stays in suspension by mixing thoroughly before and during press runs.** KS-686LV should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 07/07/2017

# Technical Data Sheet

## KS-803

### Bright Silver Glitter BZP Free UV Coating



#### Product Description

**KS-803** is formulated to be used as a special effect UV coating. **KS-803** can be applied in-line over UV or hybrid UV offset ink, over dry flexo ink or offline over oil base sheetfed ink. Typical applications include commercial sheetfed and flexo label printing on paper and paperboard substrates as well as some films. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Excellent Glitter effect
- Excellent cure response
- Benzophenone (BZP) free
- Considered imprintable, foil-stampable, glueable, etc. Should be tested.
- \*\* Recommended application is 40 BCM anilox or higher where heavy film thicknesses may be applied

#### Physical Properties

- Viscosity 30-35" #5 Zahn
- Specific Gravity 1.17
- Solids > 99%

#### End Use Considerations

**KS-803 contains a pigment that may settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-803** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 07/07/2017

# Technical Data Sheet

## KS-806

### BZP Free Silver Pearl UV Coating



#### Product Description

KS-806 is formulated with silver pearlescent pigment to be used as a special effect UV coating. KS-806 can be applied in-line over AQ or energy curable flexographic or offset inks as well as offline over oil base sheetfed ink. Typical applications include printing on paper, paperboard, select polyethylene and other select nonporous substrates where excellent gloss and decorative pearl effect are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Pearlescent Effect
- Benzophenone (BZP) free
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.

#### Physical Properties

- Viscosity 27 - 30 sec. #4 Zahn
- Specific Gravity 1.17
- Solids > 99%

#### End Use Considerations

**KS-806 contains pearlescent pigment that will settle. Care needs to be taken to ensure the pearl pigment stays in suspension by mixing thoroughly before and during press runs.** KS-806 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Material Safety Data Sheet (MSDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the MSDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 02/17/2016



# Technical Data Sheet

## KS-816

### Platinum Gold UV Coating

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#### Product Description

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KS-816 is formulated with an effect pigment that has a “flip” quality of off and on dependent on the view angle. This flip quality allows KS-816 to be used for decorative or security printing. KS-816 can be applied in-line over energy cured flexo and offset ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard substrates as well as a wide variety of films for flexo printing. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

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- Excellent color development and print quality
- Excellent cure response
- May be imprintable, foil-stampable, glueable, etc. but **SHOULD BE TESTED** as pigment treatment may inhibit

#### Physical Properties

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- Viscosity 25 - 30 sec. #3 Zahn
- Specific Gravity 1.14
- Solids > 99%

#### End Use Considerations

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**KS-816 contains an effect pigment that will settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** KS-816 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

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Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 01/11/2018

# Technical Data Sheet

## KS-831

### Sparkle H-UV/LE-UV Coating

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#### Product Description

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**KS-831** is formulated with multiple special effect pigments to create a brilliant sparkle effect. **KS-831** can be applied in-line over high intensity or low energy UV ink. Typical applications include commercial sheetfed printing on paper and paperboard substrates where attention getting is desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

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- Excellent sparkle effect
- Excellent cure response
- BZP (Benzophenone) free
- Not considered imprintable, foil-stampable, glueable, etc.
- \*\* Recommended application is a 25 BCM anilox or higher

#### Physical Properties

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- Viscosity: 20 - 30" #5 Zahn @ 77F
- Specific Gravity: 1.17
- Solids: > 99%

#### End Use Considerations

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**KS-831 contains a pigment that may settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-831** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

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Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 01/18/2017

# Technical Data Sheet

## KS-835

### Silver Pearl H-UV/LE-UV Coating



#### Product Description

KS-835 is formulated with silver pearlescent pigment to be used as a special effect H-UV/LE-UV coating. KS-835 can be applied in-line over H-UV/LE-UV ink. Typical applications include commercial sheetfed printing on paper and paperboard substrates where excellent gloss and minimal gloss-back are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Pearlescent Effect
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.

#### Physical Properties

- Viscosity 27 - 30 sec. #4 Zahn
- Specific Gravity 1.17
- Solids > 99%

#### End Use Considerations

**KS-835 contains pearlescent pigment that will settle. Care needs to be taken to ensure the pearl pigment stays in suspension by mixing thoroughly before and during press runs.** KS-835 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, H-UV/LE-UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 01/18/2017

# Technical Data Sheet

## KS-839

### Gold Pearl Satin UV Coating



#### Product Description

**KS-839** is formulated with a gold effect pigment creating a pearl appearance with a satin finish. **KS-839** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed and flexo printing on paper, film and paperboard substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Excellent gold pearl effect with a satin finish
- Excellent cure response
- Considered imprintable, foil-stampable, glueable, etc.

#### Physical Properties

- Viscosity 10 - 15 sec. #4 Zahn
- Specific Gravity 1.07
- Solids > 99%

#### End Use Considerations

**KS-839 contains a pigment that may settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-839** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Material Safety Data Sheet (MSDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the MSDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 08/17/2016

# Technical Data Sheet

## KS-844

Rutile Green Security  
BZP Free UV Coating



### Product Description

KS-844 is formulated with an effect pigment that has a “flip” quality of off and on dependent on the view angle. This flip quality allows KS-844 to be used for decorative or security printing. KS-844 can be applied in-line over energy cured flexo and offset ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed printing on paper and paperboard substrates as well as a wide variety of films for flexo printing. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

### Performance Characteristics

- Smallest micron pigments provide excellent color development and print quality especially in type
- BZP (Benzophenone) free
- Excellent cure response
- May be imprintable, foil-stampable, glueable, etc. but **SHOULD BE TESTED** as pigment treatment may inhibit

### Physical Properties

- Viscosity 25 - 30 sec. #3 Zahn
- Specific Gravity 1.14
- Solids > 99%

### End Use Considerations

**KS-844 contains an effect pigment that will settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** KS-844 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Material Safety Data Sheet (MSDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the MSDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

### FOR YOUR PROTECTION:

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DATE REVISED: 09/01/2016

# Technical Data Sheet

## KS-846

### Rutile Green UV Coating



#### Product Description

**KS-846** is formulated with an effect pigment that has a “flip” quality of off and on dependent on the view angle. **KS-846** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed and flexo printing on paper, film and paperboard substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Smallest micron pigments provide excellent color development and print quality especially in type
- Excellent cure response
- May be imprintable, foil-stampable, glueable, etc. but **SHOULD BE TESTED** as pigment treatment may inhibit

#### Physical Properties

- Viscosity 23 - 27 sec. #4 Zahn
- Specific Gravity 1.14
- Solids > 99%

#### End Use Considerations

**KS-846 contains a pigment that may settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-846** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Material Safety Data Sheet (MSDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the MSDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 09/01/2016

# Technical Data Sheet

## KS-847

### Light Gold Large Glitter UV Coating



#### Product Description

**KS-847** is a uv coating containing a large micron stamped glitter for application with large volume anilox or large mesh screen. **KS-847** can be applied in-line over UV or hybrid UV offset ink, over dry flexo ink or offline over oil base sheetfed ink. Typical applications include high end packaging on paper and paperboard substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- Large glitter effect
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc. Should be tested.
- \*\* Recommended application is 40 BCM or higher anilox or 70-90 mesh screen where heavy film thicknesses may be applied

#### Physical Properties

- Viscosity 10-15" #5 Zahn
- Specific Gravity 1.14
- Solids > 99%

#### End Use Considerations

**KS-847 contains a pigment that may settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-847** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 01/12/2017

# Technical Data Sheet

## KS-848

### BZP Free Glistening Gold UV Coating



#### Product Description

**KS-848** is formulated with a gold special effect pigment to create a brilliant effect. **KS-848** can be applied in-line over UV or hybrid UV ink, or offline over oil base sheetfed ink. Typical applications include commercial sheetfed and flexo printing on paper, film and paperboard substrates where excellent gloss and minimal gloss-back are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

- BZP (Benzophenone) free
- Excellent gold pearl effect
- Excellent cure response
- Considered imprintable, foil-stampable, glueable, etc.

#### Physical Properties

- Viscosity 25 - 30 sec. #3 Zahn
- Specific Gravity 1.16
- Solids > 99%

#### End Use Considerations

**KS-848 contains a pigment that may settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** **KS-848** should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Material Safety Data Sheet (MSDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the MSDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 11/08/2016



## TECHNICAL DATA SHEET



# KS-9076

## Pearlescent AQ Coating

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### PRODUCT DESCRIPTION

KS-9076 is an acrylic-based aqueous coating containing silver pearl pigment for application to paper and paperboard with in-line coater/dampeners and blanket coaters. Typical applications include commercial or folding carton sheetfed work where a pearl or iridescent appearance is desired.

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### PERFORMANCE CHARACTERISTICS

- Exhibits excellent gloss and clarity.
- Exhibits excellent rub and scuff resistance.
- Exhibits typical luster and iridescent characteristics associated with pearl pigments.
- **"MAY BE SUITABLE"** for some hot foil stamping, imprinting and gluing applications. Before doing so, KS-9076 should be completely evaluated under production conditions using the actual substrate and ink, as materials for foil stamping, imprinting and gluing vary from supplier-to-supplier. Feel free to contact Kustom Group for additional information.

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### PHYSICAL PROPERTIES

- **Viscosity:** 18 - 22" #3 Zahn (Signature) @ 77° F
- **pH:** 8.0 - 8.5 @ 77° F
- **Solids:** 36 - 38% Method 24
- **Shelf Life:** One year (unopened container)

\*\*\*\*\* Requires mixing prior to use as pearl pigments exhibit a tendency to settle \*\*\*\*\*

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### PIGMENT SELECTION

Most aqueous coatings are alkaline in pH because of the presence of ammonia and/or amines. Kustom Group recommends avoiding the use of inks containing pigments that may bleed or change color when being exposed to an aqueous coating. Pigments that typically exhibit this alkali sensitivity include YS Rhodamine, BS Rhodamine, Methyl Violet, Fluorescent, Red Lake C, Alkali Blue (Reflex Blue) and possibly other pigments. Many pigments normally considered safe may prove to be problematic in low color strength color matches. The safest option is to use inks formulated to resist this burn potential. As a precaution, we strongly recommend that new pigments and ink formulations be evaluated with this coating.

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### FOR YOUR PROTECTION:

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DATE REVISED 12/02/2014

## TECHNICAL DATA SHEET



# KS-9132

## Low Curl Pearl AQ Coating

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### PRODUCT DESCRIPTION

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KS-9132 is an acrylic-based aqueous coating containing silver pearl pigment for application to paper and paperboard with in-line coater/dampeners and blanket coaters. KS-9132 is formulated to reduce the curling of low basis weight substrates. Typical applications include commercial or folding carton sheetfed work.

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### PERFORMANCE CHARACTERISTICS

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- Extremely low curl
- Exhibits typical luster characteristics associated with pearl pigments
- Suitable for work & turn and one-side printing
- **"MAY BE SUITABLE"** for some hot foil stamping, imprinting and gluing applications. Before doing so, KS-9132 should be completely evaluated under production conditions using the actual substrate and ink, as materials for foil stamping, imprinting and gluing vary from supplier to supplier. Feel free to contact Kustom Group for additional information.

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### PHYSICAL PROPERTIES

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- **Viscosity:** 20 - 25" #3 Zahn (Signature) @ 77° F
- **pH:** 8.0 - 8.5 @ 77° F
- **Solids:** 36 - 38% Method 24
- **Shelf Life:** One year (unopened container)
- **\*\*\*\*\*Requires mixing prior to use as pearl pigments exhibit a tendency to settle\*\*\*\*\***

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### PIGMENT SELECTION

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Most aqueous coatings are alkaline in pH because of the presence of ammonia and/or amines. Kustom Group recommends avoiding the use of inks containing pigments that may bleed or change color when being exposed to an aqueous coating. Pigments that typically exhibit this alkali sensitivity include YS Rhodamine, BS Rhodamine, Methyl Violet, Fluorescent, Red Lake C, Alkali Blue (Reflex Blue) and possibly other pigments. Many pigments normally considered safe may prove to be problematic in low color strength color matches. The safest option is to use inks formulated to resist this burn potential. As a precaution, we strongly recommend that new pigments and ink formulations be evaluated with this coating.

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### FOR YOUR PROTECTION:

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DATE REVISED 12/10/2014

## TECHNICAL DATA SHEET



# KS-9804

## Pearl Satin AQ Coating

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### PRODUCT DESCRIPTION

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KS-9804 is an acrylic-based aqueous coating containing silver pearl pigment for application to paper and paperboard with in-line anilox coaters. Typical applications include commercial or folding carton sheetfed work where print enhancement is desired in the pressroom.

### PERFORMANCE CHARACTERISTICS

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- Exhibits excellent satin appearance with non-burnishing characteristics
- Exhibits excellent rub and scuff resistance
- Exhibits typical luster characteristics associated with pearl pigments and a satin finish
- **"MAY BE SUITABLE"** for some hot foil stamping, imprinting and gluing applications. Before doing so, KS-9804 should be completely evaluated under production conditions using the actual substrate and ink, as materials for foil stamping, imprinting and gluing vary from supplier to supplier. Feel free to contact Kustom Group for additional information.

### PHYSICAL PROPERTIES

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- **Viscosity:** 22 - 26" #3 Zahn (Signature) @ 77° F
- **pH:** 8.0 - 8.5 @ 77° F
- **Solids:** 43 - 45% Method 24
- **Shelf Life:** One year (unopened container)
- **Requires mixing prior to and while using as pearl pigments exhibit a tendency to settle**

### PIGMENT SELECTION

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Most aqueous coatings are alkaline in pH because of the presence of ammonia and/or amines. Kustom Group recommends avoiding the use of inks containing pigments that may bleed or change color when being exposed to an aqueous coating. Pigments that typically exhibit this alkali sensitivity include YS Rhodamine, BS Rhodamine, Methyl Violet, Fluorescent, Red Lake C, Alkali Blue (Reflex Blue) and possibly other pigments. Many pigments normally considered safe may prove to be problematic in low color strength color matches. The safest option is to use inks formulated to resist this burn potential. As a precaution, we strongly recommend that new pigments and ink formulations be evaluated with this coating.

### FOR YOUR PROTECTION:

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DATE REVISED 12/22/2014

# TECHNICAL DATA SHEET

## KS-9808

### Glitter Kote AQ Coating



#### Product Description:

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KS-9808 is an aqueous coating containing an effect pigment that provides a glitter effect for application to paper and paperboard with litho in-line coaters and flexo presses equipped with chambered doctor blade anilox systems. Typical applications include commercial, folding carton and specialty printing work. Contact Kustom Group for additional information, as it is important to fully understand the optimum conditions for success.

#### Performance Characteristics:

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- Glitter appearance with excellent gloss
- Anilox roller volume greater than 16 BCM should provide the desired film thickness for the glitter effect.
- **"MAY BE SUITABLE"** for hot foil stamping, off-line UV coating, imprinting and gluing applications. KS-9808 should be completely evaluated under production conditions using the actual substrate, ink, and materials for foil stamping, off-line UV coating, imprinting and gluing to ensure satisfaction throughout the entire process.

#### Application Advisements:

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- Ensure ink system will dry/cure thoroughly. Avoid extreme stay open inks.
- Recommend using short lifts for sheetfed litho jobs with heavy ink coverage.
- Extra care should be taken when cleaning to ensure all of the special pigment in the coating is removed to prevent contamination to other products.

#### Physical Properties:

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- **Viscosity:** 25 - 30" #4 Zahn (Signature) @ 77° F
- **pH:** 8.0 - 8.5 @ 77° F
- **Solids:** 44 - 48% Method 24
- **Requires mixing prior to and while using as pearl pigments exhibit a tendency to settle**

#### Pigment Selection:

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Most aqueous coatings are alkaline in pH because of the presence of ammonia and/or amines. Kustom Group recommends avoiding the use of inks containing pigments that may bleed or change color when being exposed to an aqueous coating. Pigments that typically exhibit this alkali sensitivity include YS Rhodamine, BS Rhodamine, Methyl Violet, Fluorescent, Red Lake C, Alkali Blue (Reflex Blue) and possibly other pigments. Many pigments normally considered safe may prove to be problematic in low color strength color matches. The safest option is to use inks formulated to resist this burn potential. As a precaution, we strongly recommend that new pigments and ink formulations be evaluated with this coating.

#### FOR YOUR PROTECTION:

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DATE REVISED 02/05/2016

## TECHNICAL DATA SHEET

# KS-9813



## Shimmering White AQ Coating

### Product Description:

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KS-9813 is a special effect aqueous coating containing an effect pigment that provides a transparent glitter effect for application to paper and paperboard with litho in-line coaters and flexo presses that are equipped with chambered doctor blade anilox systems. Typical applications include commercial, folding carton and specialty printing work. Contact Kustom Group for additional information, as it is important to fully understand the optimum conditions for success.

### Performance Characteristics:

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- Glitter appearance with excellent gloss
- A higher viscosity version may be desired for blanket and roll coaters.
- KS-9813 exhibits excellent rub and scuff resistance.
- **"MAY BE SUITABLE"** for hot foil stamping, off-line UV coating, imprinting and gluing applications. KS-9813 should be completely evaluated under production conditions using the actual substrate, ink, and materials for foil stamping, off-line UV coating, imprinting and gluing to ensure satisfaction throughout the entire process.

### Application Advisements:

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- Ensure ink system will dry/cure thoroughly. Avoid extreme stay open inks.
- Recommend using short lifts for sheetfed litho jobs with heavy ink coverage.
- Extra care should be taken when cleaning to ensure all of the special pigment in the coating is removed to prevent contamination to other products.

### Physical Properties:

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- **Viscosity:** 15 - 20" #4 Zahn (Signature) @ 77° F
- **pH:** 8.0 - 8.5 @ 77° F
- **Solids:** 44 - 48% Method 24

### Pigment Selection:

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Most aqueous coatings are alkaline in pH because of the presence of ammonia and/or amines. Kustom Group recommends avoiding the use of inks containing pigments that may bleed or change color when being exposed to an aqueous coating. Pigments that typically exhibit this alkali sensitivity include YS Rhodamine, BS Rhodamine, Methyl Violet, Fluorescent, Red Lake C, Alkali Blue (Reflex Blue) and possibly other pigments. Many pigments normally considered safe may prove to be problematic in low color strength color matches. The safest option is to use inks formulated to resist this burn potential. As a precaution, we strongly recommend that new pigments and ink formulations be evaluated with this coating.

### FOR YOUR PROTECTION:

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DATE REVISED 01/05/2015

## TECHNICAL DATA SHEET



# KS-9814

## Silver Pearl Satin AQ Coating

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### PRODUCT DESCRIPTION

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KS-9814 is an acrylic-based aqueous coating that provides a satin appearance and contains a satin silver effect pigment for application to paper and paperboard with in-line coater/dampeners and blanket coaters. Typical applications include commercial or folding carton sheetfed work when one coating is desired for broad use in the pressroom.

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### PERFORMANCE CHARACTERISTICS

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- Exhibits excellent clarity
- Exhibits excellent rub and scuff resistance
- Exhibits typical luster characteristics associated with pearl pigments
- Suitable for work & turn and one-side printing
- **"MAY BE SUITABLE"** for some hot foil stamping, imprinting and gluing applications. Before doing so, KS-9814 should be completely evaluated under production conditions using the actual substrate and ink, as materials for foil stamping, imprinting and gluing vary from supplier to supplier. Feel free to contact Kustom Group for additional information.

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### PHYSICAL PROPERTIES

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- **Viscosity:** 25 - 30" #3 Zahn (Signature) @ 77° F
- **pH:** 8.0 - 8.5 @ 77° F
- **Solids:** 49 - 51% Method 24
- **Shelf Life:** One year (unopened container)
- Requires mixing prior to use as pearl pigments exhibit a tendency to settle

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### PIGMENT SELECTION

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Most aqueous coatings are alkaline in pH because of the presence of ammonia and/or amines. Kustom Group recommends avoiding the use of inks containing pigments that may bleed or change color when being exposed to an aqueous coating. Pigments that typically exhibit this alkali sensitivity include YS Rhodamine, BS Rhodamine, Methyl Violet, Fluorescent, Red Lake C, Alkali Blue (Reflex Blue) and possibly other pigments. Many pigments normally considered safe may prove to be problematic in low color strength color matches. The safest option is to use inks formulated to resist this burn potential. As a precaution, we strongly recommend that new pigments and ink formulations be evaluated with this coating.

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### FOR YOUR PROTECTION:

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DATE REVISED 01/05/2015

# TECHNICAL DATA SHEET

## KS-9816

### Sparkle Kote AQ Coating



#### Product Description:

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KS-9816 is a special effect aqueous coating with a sparkle effect for application to paper and paperboard with litho in-line coaters and flexo presses that are equipped with chambered doctor blade anilox systems. Typical applications include commercial, folding carton and specialty printing work. Contact Kustom Group for additional information, as it is important to fully understand the optimum conditions for success.

#### Performance Characteristics:

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- Sparkle appearance with excellent gloss
- Anilox roller volume greater than 12 BCM should provide the desired film thickness for the sparkle effect.
- A higher viscosity version may be desired for blanket and roll coaters.
- **"MAY BE SUITABLE"** for hot foil stamping, off-line UV coating, imprinting and gluing applications. KS-9816 should be completely evaluated under production conditions using the actual substrate, ink, and materials for foil stamping, off-line UV coating, imprinting and gluing to ensure satisfaction throughout the entire process.

#### Application Advisements:

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- Ensure ink system will dry/cure thoroughly. Avoid extreme stay open inks.
- Use short lifts for sheetfed litho jobs with heavy ink coverage.
- Extra care should be taken when cleaning to ensure all of the special pigment in the coating is removed to prevent contamination to other products.

#### Physical Properties:

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- **Viscosity:** 20 - 24" #4 Zahn (Signature) @ 77° F
- **pH:** 8.0 - 8.5 @ 77° F
- **Solids:** 44 - 48% Method 24

#### Pigment Selection:

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Most aqueous coatings are alkaline in pH because of the presence of ammonia and/or amines. Kustom Group recommends avoiding the use of inks containing pigments that may bleed or change color when being exposed to an aqueous coating. Pigments that typically exhibit this alkali sensitivity include YS Rhodamine, BS Rhodamine, Methyl Violet, Fluorescent, Red Lake C, Alkali Blue (Reflex Blue) and possibly other pigments. Many pigments normally considered safe may prove to be problematic in low color strength color matches. The safest option is to use inks formulated to resist this burn potential. As a precaution, we strongly recommend that new pigments and ink formulations be evaluated with this coating.

#### FOR YOUR PROTECTION:

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DATE REVISED 01/05/2015

# TECHNICAL DATA SHEET



# KS-9818

## Angle Dependent Blue AQ Coating

### PRODUCT DESCRIPTION

KS-9818 is an acrylic-based aqueous coating with an effect pigment that presents a different color depending on the angle viewed. Typical applications would be to paper, paperboard and select non-porous substrates with in-line coater/dampeners.

### PERFORMANCE CHARACTERISTICS

- FDA-Compliant for indirect food contact: 21CFR 175.300. Contact your Kustom Group representative to explore each application where any type of indirect FDA-Compliance is considered. KS-9818 is not intended for direct food contact applications.
- Exhibits excellent rub and scuff resistance with good gloss.
- This coating is not recommended for hot foil stamping, imprinting and gluing applications.

### PHYSICAL PROPERTIES

- **Viscosity:** 22 - 26" #4 Zahn (Signature) @ 77° F
- **pH:** 8.5 - 9.2 @ 77° F
- **Solids:** 42 - 44% Method 24
- **Shelf Life:** One year (unopened container)

### PIGMENT SELECTION

Most aqueous coatings are alkaline in pH because of the presence of ammonia. We recommend that the printer avoid the use of inks containing pigments that may bleed or change color when being exposed to an aqueous coating. Pigments that typically exhibit this sensitivity to alkali include YS Rhodamine, BS Rhodamine, Methyl Violet, Fluorescent, Red Lake C, Alkali Blue (Reflex Blue) and possibly other pigments. Many pigments normally considered safe, may prove to be problematic in low color strength color matches. The safest option is to use inks formulated to resist the potential to burn. As a precaution, we strongly recommend that new pigments and ink formulations be evaluated with this coating.

### FOR YOUR PROTECTION:

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DATE REVISED 09/19/2014



## TECHNICAL DATA SHEET



# KS-9821

## Gold Pearl AQ Coating

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### PRODUCT DESCRIPTION

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KS-9821 is an acrylic-based aqueous coating containing a gold pearl pigment for application to paper and paperboard with in-line coater/dampeners and blanket coaters. Typical applications include commercial or folding carton sheetfed work.

### PERFORMANCE CHARACTERISTICS

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- Exhibits excellent gloss and clarity
- Exhibits excellent rub and scuff resistance
- Exhibits typical luster characteristics associated with pearl pigments
- Suitable for work & turn and one-side printing
- **"MAY BE SUITABLE"** for some hot foil stamping, imprinting and gluing applications. Before doing so, KS-9821 should be completely evaluated under production conditions using the actual substrate and ink, as materials for foil stamping, imprinting and gluing vary from supplier-to-supplier. Feel free to contact Kustom Group for additional information.

### PHYSICAL PROPERTIES

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- **Viscosity:** 18 - 22" #3 Zahn (Signature) @ 77° F
- **pH:** 8.0 - 8.5 @ 77° F
- **Solids:** 36 - 38% Method 24
- **Shelf Life:** One year (unopened container)
- Requires mixing prior to use as pearl pigments exhibit a tendency to settle

### PIGMENT SELECTION

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Most aqueous coatings are alkaline in pH because of the presence of ammonia and/or amines. Kustom Group recommends avoiding the use of inks containing pigments that may bleed or change color when being exposed to an aqueous coating. Pigments that typically exhibit this alkali sensitivity include YS Rhodamine, BS Rhodamine, Methyl Violet, Fluorescent, Red Lake C, Alkali Blue (Reflex Blue) and possibly other pigments. Many pigments normally considered safe may prove to be problematic in low color strength color matches. The safest option is to use inks formulated to resist this burn potential. As a precaution, we strongly recommend that new pigments and ink formulations be evaluated with this coating.

### FOR YOUR PROTECTION:

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DATE REVISED 01/05/2015

## TECHNICAL DATA SHEET

# KS-9823



## Polyboard Big Pearl AQ Coating

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### PRODUCT DESCRIPTION

KS-9823 is an acrylic-based aqueous coating containing a higher micron range pearl effect pigment that provides a pearlescent/small glitter effect when applied with in-line anilox coaters. KS-9823 is specifically formulated for application over conventional sheetfed inks on polyboard or select other non-porous substrates.

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### PERFORMANCE CHARACTERISTICS

- Exhibits good gloss and clarity.
- Exhibits excellent rub and scuff resistance.
- Effect pigment, 20-100 microns
- **"NOT SUITABLE"** for hot foil stamping, imprinting and gluing applications. Contact Kustom Group for additional information.

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### PHYSICAL PROPERTIES

- **Viscosity:** 25 - 30" #5 Zahn (Signature) @ 77° F
- **pH:** 8.7 – 9.2 @ 77° F
- **Solids:** 46 - 48% Method 24
- **Shelf Life:** One year (unopened container)

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### PIGMENT SELECTION

Most aqueous coatings are alkaline in pH due to the presence of ammonia and/or amines. The lower pH of KS-9823 allows using inks containing pigments that may normally bleed or change color when exposed to a higher pH aqueous coating. Pigments that typically exhibit this sensitivity include YS Rhodamine, BS Rhodamine, Methyl Violet, Fluorescents, Red Lake C, Alkali Blue (Reflex Blue) and others. Many pigments normally considered safe may prove problematic in low color strength color matches like pastels. The safest option uses inks formulated to resist burn potential. As a precaution, we strongly recommend new pigments and ink formulations be evaluated thoroughly with this coating. Not all pigments of the same type will react the same under the KS-9823.

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DATE REVISED 10/04/2016

## TECHNICAL DATA SHEET

# KS-9824



## Polyboard Silver Glitter AQ Coating

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### PRODUCT DESCRIPTION

KS-9824 is an acrylic-based aqueous coating containing a higher micron range effect pigment that provides a glitter effect when applied with in-line anilox coaters. KS-9824 is specifically formulated for application over conventional sheetfed inks on polyboard or select other non-porous substrates.

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### PERFORMANCE CHARACTERISTICS

- Exhibits good gloss and clarity.
- Exhibits excellent rub and scuff resistance.
- Effect pigment, 30-180 microns
- **"NOT SUITABLE"** for hot foil stamping, imprinting and gluing applications. Contact Kustom Group for additional information.

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### PHYSICAL PROPERTIES

- **Viscosity:** 30 - 35" #5 Zahn (Signature) @ 77° F
- **pH:** 8.7 - 9.2 @ 77° F
- **Solids:** 42 - 44% Method 24
- **Shelf Life:** One year (unopened container)

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### PIGMENT SELECTION

Most aqueous coatings are alkaline in pH due to the presence of ammonia and/or amines. The lower pH of KS-9824 allows using inks containing pigments that may normally bleed or change color when exposed to a higher pH aqueous coating. Pigments that typically exhibit this sensitivity include YS Rhodamine, BS Rhodamine, Methyl Violet, Fluorescents, Red Lake C, Alkali Blue (Reflex Blue) and others. Many pigments normally considered safe may prove problematic in low color strength color matches like pastels. The safest option uses inks formulated to resist burn potential. As a precaution, we strongly recommend new pigments and ink formulations be evaluated thoroughly with this coating. Not all pigments of the same type will react the same under the KS-9824.

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### FOR YOUR PROTECTION:

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DATE REVISED 10/04/2016

## TECHNICAL DATA SHEET

# KS-9825



## Iridescent Platinum Gold AQ Coating

### Product Description:

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KS-9825 is a special effect aqueous coating containing a gold effect pigment that provides an iridescent effect for application to paper and paperboard with litho in-line coaters and flexo presses that are equipped with chambered doctor blade anilox systems. Typical applications include commercial, folding carton and specialty printing work. Contact Kustom Group for additional information, as it is important to fully understand the optimum conditions for success.

### Performance Characteristics:

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- Excellent gloss
- A higher viscosity version may be desired for blanket and roll coaters.
- KS-9825 exhibits excellent rub and scuff resistance.
- **"MAY BE SUITABLE"** for hot foil stamping, off-line UV coating, imprinting and gluing applications. KS-9825 should be completely evaluated under production conditions using the actual substrate, ink, and materials for foil stamping, off-line UV coating, imprinting and gluing to ensure satisfaction throughout the entire process.

### Application Advisements:

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- Ensure ink system will dry/cure thoroughly. Avoid extreme stay open inks.
- Recommend using short lifts for sheetfed litho jobs with heavy ink coverage.
- Extra care should be taken when cleaning to ensure all of the special pigment in the coating is removed to prevent contamination to other products.

### Physical Properties:

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- **Viscosity:** 20 - 24" #3 Zahn (Signature) @ 77° F
- **pH:** 8.0 - 8.5 @ 77° F
- **Solids:** 44 - 48% Method 24

### Pigment Selection:

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Most aqueous coatings are alkaline in pH because of the presence of ammonia and/or amines. Kustom Group recommends avoiding the use of inks containing pigments that may bleed or change color when being exposed to an aqueous coating. Pigments that typically exhibit this alkali sensitivity include YS Rhodamine, BS Rhodamine, Methyl Violet, Fluorescent, Red Lake C, Alkali Blue (Reflex Blue) and possibly other pigments. Many pigments normally considered safe may prove to be problematic in low color strength color matches. The safest option is to use inks formulated to resist this burn potential. As a precaution, we strongly recommend that new pigments and ink formulations be evaluated with this coating.

### FOR YOUR PROTECTION:

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DATE REVISED 01/12/2015

# TECHNICAL DATA SHEET



# KS-9826

## White Pearl Low Burn AQ Coating

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### PRODUCT DESCRIPTION

KS-9826 is an acrylic-based aqueous coating containing an effect pigment that provides a white pearlescent effect when applied to paper and paperboard with in-line anilox coaters. KS-9826 is specifically formulated with low burn properties for application over inks that contain fugitive pigments. Typical applications include commercial sheetfed printing.

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### PERFORMANCE CHARACTERISTICS

- Exhibits good gloss and clarity.
- Exhibits excellent rub and scuff resistance.
- **"MAY BE SUITABLE"** for some hot foil stamping, imprinting and gluing applications. Before doing so, KS-9826 should be completely evaluated under production conditions using the actual substrate and ink, as materials for foil stamping, imprinting and gluing vary from supplier-to-supplier. Contact Kustom Group for additional information.
- **Exhibits excellent non-burn properties with alkali blue, rhodamine, and florescent pigments. Extra testing should be performed on YS rhodamine as this pigment has exhibited the highest burn potential. The KS-9826 has demonstrated some burn of YS rhodamine pigments but NOT all. As a result, this property must be evaluated prior to using on press.**

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### PHYSICAL PROPERTIES

- **Viscosity:** 25 - 30" #4 Zahn (Signature) @ 77° F
- **pH:** 7.0-8.0 @ 77° F
- **Solids:** 40-45% Method 24
- **Shelf Life:** One year (unopened container)

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### PIGMENT SELECTION

Most aqueous coatings are alkaline in pH due to the presence of ammonia and/or amines. The lower pH of KS-9826 allows using inks containing pigments that may normally bleed or change color when exposed to a higher pH aqueous coating. Pigments that typically exhibit this sensitivity include YS Rhodamine, BS Rhodamine, Methyl Violet, Fluorescents, Red Lake C, Alkali Blue (Reflex Blue) and others. Many pigments normally considered safe may prove problematic in low color strength color matches like pastels. The safest option uses inks formulated to resist burn potential. As a precaution, we strongly recommend new pigments and ink formulations be evaluated thoroughly with this coating. Not all pigments of the same type will react the same under the KS-9826.

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### FOR YOUR PROTECTION:

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DATE REVISED 09/20/2016

# Technical Data Sheet

## KS-21012

### Screen Sparkle UV Coating

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#### Product Description

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KS-21012 is formulated as a Sparkle Effect UV coating for use in the screen area. Typical applications include paper and paperboard substrates where a sparkle effect with very high gloss, good blocking and superior leveling are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

#### Performance Characteristics

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- Excellent gloss and clarity with a sparkle effect
- Higher screen volumes will produce the best effect with a maximum of 305 mesh recommended
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.

#### Physical Properties

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- Viscosity 40 - 45 sec. #4 Zahn
- Specific Gravity 1.11
- Solids > 99%

#### End Use Considerations

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MIX WELL BEFORE AND WHILE USING as pigment in KS-21012 will settle.

KS-21012 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

#### Storage and Handling Information

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Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 09/08/2017

# Technical Data Sheet

## LED-681

Angle Dependent Sparkling Blue  
LED Coating for Flexo Gap



### Product Description

LED-681 is an LED curable gloss coating formulated with an effect pigment that displays a different color depending on the angle viewed. LED-681 is recommended for use in-line over energy curable ink systems. Typical applications include offset and flexo printing on paper and select non-porous substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

### Performance Characteristics

- Color changes from Turquoise to Blue to Violet depending on the angle
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.

### Physical Properties

- Viscosity 25 - 30 sec. #4 Zahn
- Specific Gravity 1.07
- Solids > 99%

### End Use Considerations

**LED-681 contains an effect pigment that will settle. Care needs to be taken to ensure the pigment stays in suspension by mixing thoroughly before and during press runs.** LED-681 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some substrates. A primer may be considered for use if this property needs to be improved.

### Storage and Handling Information

**\*\*Care should be taken to reduce the exposure of any light, especially fluorescent light, to LED coating, as prolonged exposure can cause uncontrollable polymerization of the product with generation of heat.**

Care should be taken not to expose radiation curable products to temperatures exceeding 100°F for prolonged periods of time or to direct sunlight. Storage must be in a cool, shaded, well-ventilated and dry area. To do otherwise might cause uncontrollable polymerization of the product with generation of heat. Do not store this material under an oxygen-free atmosphere. This material should not be stored for more than six (6) months.

Certain precautions should be taken when handling this product. Please refer to the Safety Data Sheet (SDS) for further details. This product contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Since irritation may not occur immediately, contact can go unnoticed. Consult the SDS for appropriate equipment prior to using this or any other materials referred to in this Technical Data Sheet.

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DATE REVISED: 08/07/2017