

MOST POPULAR H-UV PRODUCTS



H-UV Coatings

- KS-849 BZP-Free Gloss H-UV Coating
Excellent top cure, low yellowing and high gloss

- KS-800 BZP Free Gloss H-UV Coating
Lower viscosity KS-849, can be used in reticulation Strike-Thru too

- KS-850 Satin H-UV Coating
60 degree gloss reading less than 40

- KS-851 Matte H-UV Coating
60 degree gloss reading less than 15

- KS-832 Gloss Foil-Stampable H-UV Coating
May be considered for glue and coating

H-UV Litho Overprints

- KS-880 Gloss Litho H-UV OPV
Excellent top cure, low yellowing and high gloss

- KS-881 Satin Litho H-UV OPV
60 degree gloss reading less than 40

- KS-882 Matte Litho H-UV OPV
60 degree gloss reading less than 15

Specialty H-UV Coatings

- KS-805 BZP Free Coarse Matte Sandy Feel H-UV Coating
Roughest feeling H-UV coating

- KS-833 Sandy Feel Matte H-UV Coating
Coarse sandy/grit feel with matte appearance

- KS-835 Silver Pearl H-UV/LE-UV Coating
Pearlescent coating

- KS-838 Raised High Gloss H-UV Coating
High build or raised effect with emboss appearance

H-UV Strike-Thru

- KS-899 Reticulation Strike-Thru Gloss Litho H-UV OPV
Spot applied litho varnish used to create reticulation effect with KS-854

- KS-854 Reticulation Strike-Thru Gloss H-UV Coating
Flood coat application lays smooth over inks and reticulates over KS-899

Please refer to the technical data sheet for additional application and product information.

Revised: 12/28/2018

Technical Data Sheet

KS-849

BZP-Free Gloss H-UV Coating



Product Description

KS-849 is formulated as a fast cure, high gloss H-UV coating. KS-849 also gives the unique combination of above-average imprintability properties* with a more slippery feel (lower slide angle) versus typical imprintable coatings. Applications include paper and paperboard stocks. For additional information regarding assistance and applications, please contact your Kustom Group representative.

Performance Characteristics

- Fast cure with high gloss
- Benzophenone (BZP) free
- Low odor
- Unique combination of imprintability with good slip.
- Very good hold out on porous stock.

Physical Properties

- Viscosity 26 – 30 sec. #3 Zahn
- Specific Gravity 1.11
- Solids > 99%

End Use Considerations

KS-849 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.

***Always test to make sure imprintability properties are acceptable prior to any production run.**

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DATE REVISED: 12/27/2018

Technical Data Sheet

KS-800

BZP Free Gloss H-UV Coating



Product Description

KS-800 is formulated as a fast cure, high gloss H-UV coating that may be used as a standard gloss coating for broad protection and in reticulation Strike-Thru applications. For best results when using for reticulation Strike-Thru, KS-800 should be wet trapped over spot applied KS-899, gloss reticulation Strike-Thru OPV. For additional information regarding assistance and applications, please contact your Kustom Group representative.

Performance Characteristics

- Fast cure with high gloss
- BZP (Benzophenone) free
- Very good hold out on porous stock

Physical Properties

- Viscosity 18 – 22 sec. #3 Zahn
- Specific Gravity 1.11
- Solids > 99%

End Use Considerations

KS-800 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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DATE REVISED: 12/27/2018

Technical Data Sheet

KS-850

Satin H-UV Coating



Product Description

KS-850 is formulated as a fast cure, satin H-UV coating. KS-850 also gives the unique combination of above-average imprintability properties* with a more slippery feel (lower slide angle) versus typical imprintable coatings. Applications include paper and paperboard stocks. For additional information regarding assistance and applications, please contact your Kustom Group representative.

Performance Characteristics

- Fast cure with satin gloss
- Unique combination of imprintability with good slip.
- Very good hold out on porous stock.

Physical Properties

- Viscosity 18 – 22 sec. #3 Zahn
- Specific Gravity 1.13
- Solids > 99%

End Use Considerations

KS-850 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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DATE REVISED: 01/17/2017

Technical Data Sheet

KS-851

Matte H-UV Coating



Product Description

KS-851 is formulated as a fast cure, matte H-UV coating. KS-851 also gives the unique combination of above-average imprintability properties* with a more slippery feel (lower slide angle) versus typical imprintable coatings. Applications include paper and paperboard stocks. For additional information regarding assistance and applications, please contact your Kustom Group representative.

Performance Characteristics

- Fast cure with matte gloss
- Unique combination of imprintability with good slip.
- Very good hold out on porous stock.

Physical Properties

- Viscosity 18 – 22 sec. #3 Zahn
- Specific Gravity 1.12
- Solids > 99%

End Use Considerations

KS-851 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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DATE REVISED: 12/27/2018

Technical Data Sheet

KS-832

Foil Stampable
H-UV/LE-UV Gloss Coating



Product Description

KS-832 is formulated as a high gloss foil stampable H-UV/LE-UV coating for in-line application over H-UV/LE-UV inks. KS-832 is also recommended for H-UV/LE-UV reticulation strike thru. Typical applications include paper and paperboard substrates when one coating is desired for broad use in the pressroom. For additional information regarding assistance and applications, please contact your Kustom Group representative.

Performance Characteristics

- Excellent gloss and clarity
- Excellent cure response
- Excellent for foil stamping and glue application
- May be suitable for laser imprintability.
- Recommended coating for H-UV/LE-UV Reticulation Strike Thru

Physical Properties

- Viscosity 18 – 22 sec. #3 Zahn
- Specific Gravity 1.07
- Solids > 99%

End Use Considerations

KS-832 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, H-UV/LE-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.

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DATE REVISED: 12/27/2018

Technical Data Sheet

KS-880

Gloss Litho H-UV OPV



Product Description

KS-880 is recommended for use as an H-UV overprint varnish where high performance, high gloss and fast cure response are desired. Typical applications include sheet-fed offset printing where the OPV is applied in-line over H-UV litho ink on paper, folding carton and select plastic stocks. For additional information regarding assistance and applications, please contact your Kustom Group representative.

Performance Characteristics

- Excellent cure response
- Excellent litho properties
- Adhesion to select plastic stocks
- Considered imprintable, foil-stampable, glueable, etc. (recommend testing first)

Physical Properties

- Viscosity 150 - 250 Poise (TA Rheometer)
- Tack 9 – 11 @ 800 rpm/1 minute
- Specific Gravity 1.14
- Solids > 99%

End Use Considerations

KS-880 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 overprint varnishes 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: 12/28/2018

Technical Data Sheet

KS-881

Satin Litho H-UV OPV



Product Description

KS-881 is recommended for use as an H-UV overprint varnish where high performance, satin finish and fast cure response are desired. Typical applications include sheet-fed offset printing where the OPV is applied in-line over H-UV litho ink on paper, folding carton and select plastic stocks. For additional information regarding assistance and applications, please contact your Kustom Group representative.

Performance Characteristics

- Excellent cure response
- Excellent litho properties
- Adhesion to select plastic stocks
- Considered imprintable, foil-stampable, glueable, etc. (recommend testing first)

Physical Properties

- Viscosity 250 - 350 Poise (TA Rheometer)
- Tack 7.0 – 9.0 @ 800 rpm/1 minute
- Specific Gravity 1.13
- Solids > 99%

End Use Considerations

KS-881 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 overprint varnishes 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: 12/28/2018

Technical Data Sheet

KS-882

Matte Litho H-UV OPV



Product Description

KS-882 is recommended for use as an H-UV overprint varnish where high performance, matte finish and fast cure response are desired. Typical applications include sheet-fed offset printing where the OPV is applied in-line over H-UV litho ink on paper, folding carton and select plastic stocks. For additional information regarding assistance and applications, please contact your Kustom Group representative.

Performance Characteristics

- Excellent cure response
- Excellent litho properties
- Adhesion to select plastic stocks
- Considered imprintable, foil-stampable, glueable, etc. (recommend testing first)

Physical Properties

- | | |
|--------------------|--------------------------------|
| • Viscosity | 300 – 500 Poise (TA Rheometer) |
| • Tack | 7.0 – 9.0 @ 800 rpm/1 minute |
| • Specific Gravity | 1.12 |
| • Solids | > 99% |

End Use Considerations

KS-882 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 overprint varnishes 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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Technical Data Sheet

KS-805

BZP Free Coarse Sandy H-UV Coating



Product Description

KS-805 is formulated as a fast cure, matte sandy H-UV coating. KS-805 provides a coarse sandy or rough feel. Applications include paper and paperboard stocks. For additional information regarding assistance and applications, please contact your Kustom Group representative.

Performance Characteristics

- Fast cure with matte gloss
- Benzophenone (BZP) free
- Unique sandy/rough feel
- Very good hold out on porous stock
- MUST BE MIXED PRIOR TO AND WHILE USING

Physical Properties

- Viscosity 40 - 45 sec. #4 Zahn
- Specific Gravity 1.17
- Solids > 99%

End Use Considerations

KS-805 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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DATE REVISED: 12/27/2018

Technical Data Sheet

KS-833

Coarse Matte Sandy H-UV Coating



Product Description

KS-833 is formulated as a fast cure, matte sandy H-UV coating. KS-833 provides a coarse sandy or rough feel. Applications include paper and paperboard stocks. For additional information regarding assistance and applications, please contact your Kustom Group representative.

Performance Characteristics

- Fast cure with matte gloss
- Unique sandy/rough feel
- Very good hold out on porous stock
- MUST BE MIXED PRIOR TO AND WHILE USING

Physical Properties

- Viscosity 40 - 45 sec. #4 Zahn
- Specific Gravity 1.17
- Solids > 99%

End Use Considerations

KS-833 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, H-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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DATE REVISED: 12/27/2018

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 Group 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.

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DATE REVISED: 12/27/2018

Technical Data Sheet

KS-838

Raised High Gloss H-UV/LE-UV Coating



Product Description

KS-838 is formulated as a high viscosity H-UV/LE-UV coating for application over high intensity UV or low energy UV inks on paper or paperboard substrates. For additional information regarding assistance and applications, please contact your Kustom Group representative.

Performance Characteristics

- Excellent gloss and lay
- BZP (Benzophenone) free
- Excellent cure response
- Can be used to impart a raised look to finished coating (The process requires a high volume anilox and an etched, raised photopolymer plate [usually proprietary].)
- Can also be considered for other application methods (such as a gluer unit, roll coater, etc.) .
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Solids > 99%
- Specific Gravity 1.06
- Viscosity 12 – 14 Poise (TA rheometer)

End Use Considerations

KS-838 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, H-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.

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DATE REVISED 12/27/2018

Technical Data Sheet

KS-899

Reticulation Strike-Thru
Gloss Litho H-UV OPV



Product Description

KS-899 is recommended for use as an H-UV overprint varnish for spot application allowing KS-854 gloss coating to reticulate when printed overtop. When wet trapped, KS-899 causes KS-854 to reticulate and provide a pattern different from the normal overall lay of the flood coating. Typical applications include sheet-fed offset printing where the OPV is applied in-line over H-UV or hybrid H-UV litho ink on paper, folding carton and select plastic stocks. For additional information regarding assistance and applications, please contact your Kustom Group representative.

Performance Characteristics

- Excellent cure response with coating in wet trap application
- Excellent litho properties
- Adhesion to select plastic stocks

Physical Properties

- Viscosity 125 – 175 Poise (TA Rheometer)
- Tack 1.5 – 3.5 @ 400 rpm/1 minute
- Specific Gravity 1.14
- Solids > 99%

End Use Considerations

KS-899 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 overprint varnishes 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:

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, LLC, 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, LLC 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 SDS for additional information.

DATE REVISED: 12/28/2018

Technical Data Sheet

KS-854

Reticulation Strike-Thru H-UV Coating



Product Description

KS-854 is formulated as a high gloss H-UV coating for in-line application over uncured KS-899 over UV or hybrid UV inks for reticulation strike-thru. Typical applications include paper and paperboard substrates. For additional information regarding assistance and applications, please contact your Kustom Group representative.

Performance Characteristics

- Excellent gloss and clarity
- Excellent cure response
- Excellent foil-stamping and glue application
- May be suitable for laser imprintability

Physical Properties

- Solids > 99%
- Specific Gravity 1.07
- Viscosity 18 – 22 sec. #3 Zahn

End Use Considerations

KS-854 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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