

Most Popular Products



UV Coatings

Gloss UV Coatings for Paper

- KUL-2500 Low Foam High Gloss UV Coating for **Anilox Coater** – Low foam version of KUL-2100. Use: In-line over UV or UV hybrid ink systems for commercial sheetfed printing on paper and paperboard stocks as well as labels.
- KUL-2300 High Gloss **Foil-Stampable** UV Coating – Good imprintability, foil-stampability and slip. Use: In-line application over UV or hybrid UV inks on paper or paperboard stock.
- KS-543 High Gloss UV Coating – high viscosity for maximum holdout
Use: High gloss, heavy film weight for maximum protection and holdout
- KS-400 Carton BZP-Free Gloss UV Coating – Low migration
Use: Sheetfed folding carton applications
- KS-21007 High Gloss UV **Screen** Coating – General purpose screen UV coating with excellent gloss and fast cure.
Use: Paper and paperboard stocks over UV ink.
- KS-21010 Raised **UV Screen** Coating - high build/raised effects.
Use: Off-line over dried inks on various paper substrates with large mesh.
- KS-21005 High Gloss **Flexible UV Screen** Coating
Use: Off-line over dried inks on various paper substrates.

Low Odor Gloss UV Coatings for Paper

- KS-696 High Gloss UV Coating – Benzophenone-free, low odor, low yellowing. **Adhesion to some plastic stocks.**
Use: Select rigid plastic, paperboard and paper stocks requiring **low odor and BPO-free** UV coating, including non-food contact labels.
- KS-548 Non Skid Low Odor Gloss UV Coating - Benzophenone-free, low odor, low yellowing. **Good top cure.**
Use: Over AQ flexo ink systems on paper and paperboard substrates requiring **low odor** UV coating.
- KS-510 Low Odor High Gloss UV Coating – **low odor version of KUL-2100.**
Use: Select rigid plastic, paperboard and paper stocks requiring low odor.

Imprintable/Foil-Stampable/Writeable Gloss UV Coatings for Paper

- KS-460 High Gloss **Foil-Stampable** UV Coating – Good imprintability, foil-stampability and slip. Use: In-line application over UV or hybrid UV inks on paper or paperboard stock.

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High Gloss UV Coatings for Specialty Applications for Paper

- KS-492 High Gloss **Release** UV Coating – High slip/low slide angle, good tape release properties and chemical resistance.
Use: Packaging, primer for lottery tickets.
- KS-552 **Low Slip High Rub** UV Coating – Low slip/high slide angle, good rub resistance.
Use: Over flexo ink on paper, paperboard and corrugated stock.
- KS-575 High Gloss **Low-Fingerprint** UV Coating – Exceptional gloss and fingerprint resistance.
Use: Foil-coated paper and paperboard stocks.
- KS-584 High Gloss **Dry Erase** UV Coating – Excellent gloss and Dry Erase marker wetting and clean up.
Use: Paper and paperboard stocks, select plastic stocks.
- KS-811 Prop 65-Free UV Gloss Coating containing **no** BPA or BZP
Use: Paper and paperboard stocks, select plastic stocks.

High Gloss UV Coatings for Plastic

- KS-661 Special Blend Gloss UV Coating **for Plastic** – Good adhesion over a wide variety of plastic stocks.
Use: Over UV, heatset or sheet-fed inks on a variety of plastic stocks.

Imprintable/Foil-Stampable/Glueable High Gloss UV Coatings for Plastic

- KS-566 **Imprintable** High Gloss UV Coating - Excellent imprintability, gluability and foil-stampability.
Use: Select paper and plastic stocks where imprinting is a requirement.

Satin UV Coatings for Paper

- KS-668 **Satin** UV Coating – General purpose satin UV coating; fast cure response and smooth finish with low thixotropy.
Use: In-line over paper or paperboard.
- KS-573 **Low Yellowing Satin** UV Coating – **BZP free** imprintable satin UV coating; fast cure response and smooth finish with low thixotropy.
Use: In-line over paper or paperboard and select plastics.

Matte UV Coatings

- KS-451 **Matte** UV Coating – General purpose matte UV coating; excellent matteness with low thixotropy.
Use: In-line over paper or paperboard.
- KS-564 **Imprintable Matte** UV Coating - General purpose imprintable matte UV coating; excellent matteness with low thixotropy.
Use: In-line over paper or paperboard.
- KS-412 Low Odor BZP Free Matte UV Coating
Use: In-line on various paper substrates for packaging

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UV OPV's

Gloss UV Overprint Varnishes for Paper

- KS-644 **High Gloss Imprintable Litho** UV OPV – Excellent imprintability and foil-stampability.
Use: Sheetfed offset printing where OPV is applied in-line over UV-curable litho ink on paper and folding carton stocks.
- KS-565 **High Gloss Litho** UV OPV – Excellent gloss and BZP free.
Use: Sheet-fed offset printing where the OPV is applied in-line over UV-curable litho ink on paper or folding carton substrates
- KS-440 **High Gloss Floodcoat** UV OPV – Excellent gloss
Use: Sheet-fed offset printing where the OPV is applied in-line, dry offset over UV-curable litho ink on paper or folding carton substrates.

Gloss UV Overprint Varnishes for Plastic

- KS-506 High Gloss Litho UV OPV – BZP Free. Very good litho properties with good gloss, good imprintability and low misting; **good adhesion to a variety of plastics.**
Use: Sheetfed offset printing where OPV is applied in-line over UV-curable litho ink on paper, folding carton and select plastic stocks.
- KS-536 Floodcoat Ink Receptive UV Primer for Plastic
Use: Print dry offset; without fountain solution, in the first unit to enhance adhesion of UV ink to problematic plastic substrates (low dyne).

Matte UV Overprint Varnishes for Paper

- KS-431LT **BZP Free Imprintable Litho Matte UV OPV** Lowest matte uv OPV.
Use: Sheetfed offset printing on paper and folding carton stocks.
- KS-588 **Matte Litho** UV OPV – BZP Free. Low migration
Use: Sheetfed offset printing on paper and folding carton stocks.

Matte UV Overprint Varnishes for Plastic

- KS-443 Matte Litho UV OPV – Exceptional matteness and litho properties; **good adhesion to a variety of plastic stocks.**
Use: Sheetfed offset printing on paper, paperboard and select plastic stocks.
- KS-517HV Imprintable Matte Litho UV OPV for Plastic – **Inkjet receptive**, designed for LED.
Use: Sheetfed offset printing on paper, paperboard and select plastic stocks.

Specialty UV Overprint Varnishes with Unique Properties

- KS-405 **Pearlescent** Litho UV OPV – BZP Free.
Use: Silver pearl effect for paper

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H-UV Coatings

Gloss UV Overprint Varnishes for Paper

- KS-462 **Gloss H-UV Coating** – Imprintability with good slip.
Use: Paper and paperboard
- KS-850 **Satin H-UV Coating** – Imprintability with good slip.
Use: Paper and paperboard
- KS-851 **Matte H-UV Coating** – Imprintability with good slip.
Use: Paper and paperboard

H-UV OPV's

Gloss UV Overprint Varnishes for Paper

- KS-880 **Gloss Litho H-UV OPV** – High performance and fast cure
Use: Sheet-fed offset printing where the OPV is applied in-line over H-UV litho ink on paper, folding carton and select plastic stocks.
- KS-881 **Satin Litho H-UV OPV** – High performance and fast cure
Use: Sheet-fed offset printing where the OPV is applied in-line over H-UV litho ink on paper, folding carton and select plastic stocks.
- KS-882 **Matte Litho H-UV OPV** – High performance and fast cure.
Use: Sheet-fed offset printing where the OPV is applied in-line over H-UV litho ink on paper, folding carton and select plastic stocks.

LED Coatings

Gloss UV Overprint Varnishes for Paper

- LED-012 **LED Curable Gloss Coating** – Offset
Use: Printing on paper on select non-porous substrates
- LED-009 **LED Curable Matte Coating** – Offset
Use: Printing on paper on select non-porous substrates

LED OPV's

Gloss UV Overprint Varnishes for Paper

- LED-021 **Gloss Litho LED OPV**
Use: Sheet-fed offset printing where the OPV is applied in-line over energy-curable litho ink on paper, folding carton and select plastic stocks.
- LED-025 **Matte Litho LED OPV**
Use: Sheet-fed offset printing where the OPV is applied in-line over energy-curable litho ink on paper, folding carton and select plastic stocks.

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Technical Data Sheet

KUL-2500

Low Foam Highest Gloss UV Coating



Product Description

KUL-2500 is recommended as the lowest foaming, highest gloss UV coating to be applied in-line over UV or hybrid UV ink systems. 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 SERVICES, INC. representative.

Performance Characteristics

- Very low foaming
- Excellent gloss and clarity
- Excellent cure response
- Produces a very smooth finish when applied by a roller or flexo coating unit
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Solids > 99%
- Specific Gravity 1.11
- Viscosity 21 – 24 sec. #3 Zahn

End Use Considerations

KUL-2500 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 this in this Technical Data Sheet.

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Technical Data Sheet

KUL-2300

High Gloss Foil-Stampable UV Coating



Product Description

KUL-2300 is formulated as a high gloss foil-stampable UV coating for on-line application over UV or hybrid UV inks or off-line application over dried oil-based inks. 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 SERVICES, INC. representative.

Performance Characteristics

- Excellent gloss and clarity
- Excellent cure response
- Excellent foil-stampability/imprintability/glueability
- Produces a very smooth finish when applied by a roller or flexo coating unit

Physical Properties

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

End Use Considerations

KUL-2300 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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Technical Data Sheet

KS-543

High Gloss UV Coating



Product Description

KS-543 is recommended for use as a UV coating to be applied in-line over UV or off-line over dried sheetfed inks. Typical applications include commercial sheetfed printing on coated or uncoated 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 gloss and clarity
- Excellent cure response
- Excellent hold-out
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Solids > 99%
- Specific Gravity 1.14
- Viscosity 14 – 16 Poise

End Use Considerations

KS-543 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.

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Technical Data Sheet

KS-400

Carton Low Odor Gloss UV Coating



Product Description

KS-400 is formulated as a low odor gloss UV coating for folding cartons where flexibility and rub resistance are important. Apply over hybrid or UV inks on paper, paperboard and select plastic stocks. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent gloss
- Excellent cure response
- Low yellowing and low odor
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Viscosity 14 – 16 sec. #3 Zahn
- Specific Gravity 1.05
- Solids > 99%

End Use Considerations

KS-400 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.

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Technical Data Sheet

KS-21007

High Gloss UV Screen Coating



Product Description

KS-21007 is formulated as a high gloss UV coating for use in the screen area with higher line count screens. Typical applications include paper and paperboard substrates where 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

- Excellent gloss and clarity
- Produces a glass-like finish when applied through a screen
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Viscosity 25 – 29 sec. #3 Zahn
- Specific Gravity 1.11
- Solids > 99%

End Use Considerations

KS-21007 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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Technical Data Sheet

KS-21010

Raised UV Screen Coating



Product Description

KS-21010 is formulated as a high gloss UV coating for use in screen applications where a raised appearance is desired. Typical applications include paper, paperboard and select plastic stocks where very high gloss and superior leveling are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent gloss and clarity
- Produces a glass-like finish when applied through a screen (recommend 380 - 420 mesh)
- Good cure response
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Viscosity 40 - 45 sec. #3 Zahn
- Specific Gravity 1.11
- Solids > 99%

End Use Considerations

KS-21010 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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Technical Data Sheet

KS-21005

High Gloss Flexible UV Screen Coating



Product Description

KS-21005 is formulated as a high gloss UV coating for use in the screen area over UV inks. Typical applications include various paper and paperboard substrates where very high gloss and superior leveling are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent gloss and clarity
- Produces a glass-like finish when applied through a screen
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Viscosity 21 - 24 sec. #3 Zahn
- Specific Gravity 1.10
- Solids > 99%

End Use Considerations

KS-21005 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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Technical Data Sheet

KS-696

BZP Free High Gloss UV Coating



Product Description

KS-696 is formulated as a high gloss UV coating for application over hybrid or UV inks on paper, paperboard and select plastic stocks. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent gloss
- Benzophenone (BZP) Free
- Excellent cure response
- Excellent adhesion to select plastics
- Low yellowing
- Low odor
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

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

End Use Considerations

KS-696 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.

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Technical Data Sheet

KS-548

Non Skid Low Odor Gloss UV Coating



Product Description

KS-548 is recommended as a non skid, low odor, and low burn, high gloss UV coating specially formulated to be applied over aqueous flexographic inks. KS-548 is formulated with lower odor raw materials versus a typical UV coating. Applications include paper, paperboard and corrugated board substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Low Odor
- Higher slide angle
- Low Burn
- High Gloss
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- | | |
|--------------------|----------------------|
| • Viscosity | 27 - 30 sec. #3 Zahn |
| • Specific Gravity | 1.11 |
| • Solids | > 99% |

End Use Considerations

KS-548 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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Technical Data Sheet

KS-510

Low Odor High Gloss UV Coating



Product Description

KS-510 is formulated as a low odor version of our popular KS-626. Its slightly higher viscosity is ideal for blanket coaters and lends hold-out on absorbent stocks. Apply over hybrid or UV inks on paper, paperboard and select plastic stocks. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent gloss
- Excellent cure response
- Low yellowing
- Low odor
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Viscosity 21 – 24 sec. #3 Zahn
- Specific Gravity 1.11
- Solids > 99%

End Use Considerations

KS-510 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: 01/17/2017

Technical Data Sheet

KS-460

High Gloss Foil-Stampable UV Coating



Product Description

KS-460 is formulated as a high gloss foil-stampable UV coating for in-line application over UV or hybrid UV inks or off-line application over dried oil-based inks. KS-460 is also recommended for full UV reticulation strike thru. (See Full UV Strike Thru System Technical Bulletin for more information) 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 SERVICES, INC. representative.

Performance Characteristics

- Excellent gloss and clarity
- Excellent cure response
- Excellent foil-stampability/imprintability/glueability
- May be suitable for laser imprintability.
- Produces a very smooth finish when applied by a roller or flexo coating unit
- Recommended coating for gloss and matte/gloss full UV Reticulation Strike Thru

Physical Properties

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

End Use Considerations

KS-460 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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DATE REVISED: 01/17/2017

Technical Data Sheet

KS-492

High Gloss UV Release Coating



Product Description

KS-492 is recommended for use as a high gloss UV release coating where high performance, high gloss, tape release and fast cure response are desired on paper and paperboard substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent cure response
- Good release properties
- Extremely low slide angle
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Solids > 99%
- Specific Gravity 1.10
- Viscosity 18 – 22 sec. #3 Zahn

End Use Considerations

KS-492 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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DATE REVISED: 01/17/2017

Technical Data Sheet

KS-552

Low Slip High Rub Gloss UV Coating



Product Description

KS-552 is recommended as a low slip, high gloss UV coating specially formulated to be applied over aqueous flexographic inks where a high slide angle and good rub resistance is desired. Typical applications include paper, paperboard and corrugated board substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent gloss and clarity
- Excellent cure response
- High slide angle
- Excellent rub resistance for a low slip coating
- Considered imprintable, foil-stampable, glueable, etc. (recommend testing first)

Physical Properties

- Viscosity 26 - 29 sec. #3 Zahn
- Specific Gravity 1.11
- Solids > 99%

End Use Considerations

KS-552 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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DATE REVISED: 01/17/2017

Technical Data Sheet

KS-575

Low Fingerprint Gloss UV Coating



Product Description

KS-575 is recommended for use as a UV coating that must exhibit a minimal tendency to show fingerprints when handled. Typical applications include foil-coated paper and paperboard substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent gloss and clarity
- Excellent cure response
- May be considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Viscosity 14 – 16 sec. #3 Zahn
- Specific Gravity 1.08
- Solids > 99%

End Use Considerations

KS-575 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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DATE REVISED: 01/17/2017

Technical Data Sheet

KS-584

Dry Erase High Gloss UV Coating



Product Description

KS-584 is recommended for use as a dry erase coating. Typical applications include paper, paperboard and select plastic substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent gloss and clarity
- Excellent dry erase properties (confirm dry erase properties at start of every job)
- Excellent cure response

Physical Properties

- Viscosity 17–19 sec. #3 Zahn
- Specific Gravity 1.10
- Solids > 99%

End Use Considerations

KS-584 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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Technical Data Sheet

KS-811

Prop 65 Compliant UV Gloss Coating



Product Description

KS-811 is a low migration high gloss UV coating formulated with no California Proposition 65 raw materials. It is recommended for application over HP Indigo, UV hybrid or UV inks on paper, paperboard and select plastic stocks. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Contains no CA Prop 65 raw materials
- Low migration
- Excellent gloss
- Good adhesion to select plastics
- Low yellowing
- Low odor
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Viscosity 18 – 22 sec. #3 Zahn
- Specific Gravity 1.08
- Solids > 99%

End Use Considerations

KS-811 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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Technical Data Sheet

KS-661

Special Blend Gloss
UV Coating for Plastic



Product Description

KS-661 is formulated as a high gloss UV coating for application over UV, heatset or sheet-fed inks on a variety of plastic stocks. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent gloss
- Excellent cure response
- Excellent adhesion to a variety of plastics
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Solids > 99%
- Specific Gravity 1.08
- Viscosity 18 - 22 sec. #3 Zahn

End Use Considerations

KS-661 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-566

Imprintable High Gloss UV Coating



Product Description

KS-566 is recommended for use as a UV coating where high performance, high gloss and fast cure response are desired. Typical applications include selected plastic substrates where imprinting is a requirement. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent gloss
- Excellent cure response
- Excellent adhesion to selected plastics
- Excellent imprintability, foil-stampability, glueability, etc.

Physical Properties

- Solids > 99%
- Specific Gravity 1.05
- Viscosity 18 – 20 sec. #3 Zahn

End Use Considerations

KS-566 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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DATE REVISED: 01/17/2017

Technical Data Sheet

KS-668

Satin UV Coating



Product Description

KS-668 is recommended for use as a satin UV coating to be applied in-line over UV litho, UV flexo and aqueous flexo ink systems. Typical applications include commercial sheetfed printing on paper or paperboard substrates where satin gloss is desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Smooth satin finish
- Low thixotropy
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Viscosity 14 – 17 sec. #3 Zahn
- Specific Gravity 1.12
- Solids > 99%

End Use Considerations

KS-668 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-573

Low Yellowing Satin UV Coating



Product Description

KS-573 is recommended for use as a satin UV coating for application over hybrid or UV inks on paper, paperboard and select plastic stocks. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent cure response
- Low odor
- BZP (Benzophenone) free
- Good adhesion to select plastics
- Low yellowing
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

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

End Use Considerations

KS-573 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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DATE REVISED: 01/17/2017

Technical Data Sheet

KS-451

Matte UV Coating



Product Description

KS-451 is a general purpose matte UV coating specifically formulated for use over HP Indigo and energy cure inks to be applied in-line or off-line via anilox coaters. Typical applications include commercial sheetfed printing on paper or paperboard substrates where matte gloss is desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Exhibits matte appearance with non-burnishing characteristics. Typical gloss reading is 5-15 points with a 60° gloss meter. This is dependant on the substrate and application method.
- Can be used over UV offset inks as well offering excellent rub resistance.
- Low thixotropy
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Viscosity 20 – 24 sec. #3 Zahn
- Specific Gravity 1.06
- Solids > 99%

End Use Considerations

HP Indigo requires paper sizing under the printing. To reduce burnishing of the KS-451 over the sized paper area where there is no ink present, KS-9851 as a primer on top of the printed sheet and before the KS-451 is recommended. KS-451 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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DATE REVISED: 01/17/2017

Technical Data Sheet

KS-564

Imprintable Matte UV Coating



Product Description

KS-564 is recommended for use as an imprintable matte UV coating to be applied in-line over UV or hybrid UV ink systems. Typical applications include commercial sheetfed printing on paper or paperboard substrates where a smooth dull finish is desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Smooth matte finish
- Low thixotropy
- Excellent cure response
- Excellent imprintability, foil-stampability, glueability, etc.

Physical Properties

- Viscosity 18 – 22 sec. #3 Zahn
- Specific Gravity 1.04
- Solids > 99%

End Use Considerations

KS-564 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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DATE REVISED: 01/17/2017

Technical Data Sheet

KS-412

Low Odor BZP Free Matte UV Coating



Product Description

KS-412 is formulated with purified monomers and BZP free for a true low odor UV coating. KS-412 is recommended for use as a UV coating to be applied in-line over UV or hybrid UV ink systems where a lower odor UV coating is required. 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

- Matte Finish
- Excellent cure response
- Low odor; Benzophenone (BZP) free
- Low Yellowing
- Good slip
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Viscosity 18 - 22 sec. #3 Zahn
- Specific Gravity 1.08
- Solids > 99%

End Use Considerations

KS-412 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: 01/17/2017

Technical Data Sheet

KS-644

Imprintable High Gloss Litho UV OPV



Product Description

KS-644 is recommended for use as a UV overprint varnish where high performance, high gloss, imprintability and fast cure response are desired. Typical applications include sheetfed offset printing where the OPV is applied in-line over UV-curable litho ink on paper or folding carton substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent cure response
- Excellent litho properties

Physical Properties

- Viscosity 140 - 180 Poise (TA Rheometer)
- Tack 7 - 9 @ 800 rpm/1 minute
- Specific Gravity 1.14
- Solids > 99%

End Use Considerations

KS-644 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 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: 01/17/2017

Technical Data Sheet

KS-565

BZP Free High Gloss Litho UV OPV



Product Description

KS-565 is recommended for use as a 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 UV-curable litho ink on paper or folding carton substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent cure response
- BZP (Benzophenone) Free
- Excellent litho properties
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Viscosity 150 - 200 Poise (TA Rheometer)
- Tack 7.0 – 9.0 @ 800 rpm/1 minute
- Specific Gravity 1.14
- Solids > 99%

End Use Considerations

KS-565 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: 01/17/2017

Technical Data Sheet

KS-440

High Gloss Floodcoat UV OPV



Product Description

KS-440 is recommended for use as a press-applied UV overprint varnish where high performance, high gloss and fast cure response are desired. KS-440 is not formulated to lithograph. However, it does perform well in floodcoat and pattern applications. Typical applications include paper and paperboard substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent gloss
- Excellent hold-out on a variety of paper substrates
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Solids > 99%
- Specific Gravity 1.11
- Viscosity 30 – 35 Poise

End Use Considerations

KS-440 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: 01/17/2017

Technical Data Sheet

KS-506

High Gloss BZP Free Litho UV OPV



Product Description

KS-506 is recommended for use as a 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 UV or hybrid UV litho ink on paper, folding carton and select plastic stocks. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent cure response
- BZP(Benzophenone) Free
- 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 8 – 10 @ 800 rpm/1 minute
- Specific Gravity 1.14
- Solids > 99%

End Use Considerations

KS-506 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: 01/17/2017

Technical Data Sheet

KS-536

Floodcoat Ink Receptive UV Primer for Plastic



Product Description

KS-536 is recommended for use as a press-applied UV overprint varnish where high performance, high gloss and fast cure response are desired. Typical applications include KS-536 being printed dry offset; without fountain solution, in the first unit to enhance adhesion of UV ink to problematic plastic substrates (low dyne). For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Good primer for UV ink on plastic (evaluate first)
- Runs dry offset
- Excellent adhesion to a variety of plastics
- Low yellowing
- **KS-536 is NOT intended to be used as a stand-alone overprint varnish or run with fountain solution. A finishing overprint or coating floodcoat is required at the end of the job.**

Physical Properties

- Viscosity 50 – 150 Poise
- Tack 5.0 – 7.0 @ 1200 rpm/1 minute
- Specific Gravity 1.11
- Solids > 99%

End Use Considerations

KS-536 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: 01/17/2017

Technical Data Sheet

KS-431LT

Matte BZP Free
Imprintable Litho UV OPV



Product Description

KS-431LT is recommended for use as an imprintable litho UV overprint varnish where high performance, low gloss and fast cure response are desired. Typical applications include sheetfed offset printing where the OPV is applied in-line over UV-curable litho ink on paper or folding carton substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent cure response
- BZP(Benzophenone) Free
- Excellent litho properties
- Good imprintability, foil-stampability, glueability, etc.

Physical Properties

- Solids > 99 %
- Specific Gravity 1.24
- Viscosity 500 – 700 Poise (TA Rheometer)
- Tack 4 - 5 @ 1200 rpm/1 minute

End Use Considerations

KS-431LT 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 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 Material Data Safety 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 this in Technical Data Sheet.

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DATE REVISED: 01/17/2017

Technical Data Sheet

KS-588

Matte Litho UV OPV



Product Description

KS-588 is recommended for use as a UV overprint varnish where high performance, low gloss and fast cure response are desired. Typical applications include sheetfed offset printing where the OPV is applied in-line over UV-curable litho ink on paper or folding carton substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent cure response
- Excellent litho properties
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Solids > 99 %
- Specific Gravity 1.16
- Viscosity 550 – 750 Poise (TA Rheometer)
- Tack 10 – 12 @ 1200 rpm/1 minute

End Use Considerations

KS-588 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 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: 01/17/2017

Technical Data Sheet

KS-443

Matte Litho UV OPV for Plastic



Product Description

KS-443 is recommended as our best UV litho matte OPV for plastic. KS-443 gives high performance and excellent adhesion properties to a wide variety of flexible and rigid plastic/nonporous substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent cure response
- Excellent Flexibility
- Not considered imprintable, foil-stampable, glueable, etc.
- Good litho properties

Physical Properties

- Viscosity 55 - 75 Poise
- Tack 3.0 – 5.0 @ 1200 rpm/1 minute
- Specific Gravity 1.10
- Solids > 99 %

End Use Considerations

KS-443 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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DATE REVISED: 01/17/2017

Technical Data Sheet

KS-517HV

High Viscosity LED Ink Jet Receptive
Matte Litho UV OPV for Plastic



Product Description

KS-517HV is recommended for use as an ink jet receptive UV overprint varnish where high performance, low gloss and fast cure response are desired. Typical applications include sheetfed offset printing where the OPV is applied in-line over UV-curable litho ink on various plastic substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent cure response
- Excellent litho properties
- LED and UV Ink Jet receptive

Physical Properties

- Solids > 99 %
- Specific Gravity 1.12
- Viscosity 150 - 250 Poise (TA Rheometer)

End Use Considerations

KS-517HV 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 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: 01/16/2017

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.

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DATE REVISED: 01/17/2017

Technical Data Sheet

KS-462

Gloss H-UV Coating



Product Description

KS-462 is formulated as a fast cure, high gloss H-UV coating. KS-462 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 SERVICES, INC. representative.

Performance Characteristics

- Fast cure with high 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-462 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.

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

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DATE REVISED: 01/17/2017

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 SERVICES, INC. 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

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

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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 SERVICES, INC. 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

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

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DATE REVISED: 01/17/2017

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 SERVICES, INC. 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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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 SERVICES, INC. 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.

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-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 SERVICES, INC. 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

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: 01/17/2017

Technical Data Sheet

LED-012

Gloss LED Coating



Product Description

LED-012 is recommended for use as an LED curable gloss coating to be applied in-line over energy curable ink systems. Typical applications include offset and flexo printing on paper and select non-porous substrates where high gloss and minimal gloss-back are desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- High gloss and good clarity
- Good top cure
- Excellent scuff and rub resistance
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Viscosity 21 - 24 sec. #3 Zahn
- Specific Gravity 1.11
- Solids > 99%

End Use Considerations

LED-012 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, energy curable 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 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. When in use, keep covered as much as possible. 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: 01/16/2017

Technical Data Sheet

LED-009

Matte LED Coating



Product Description

LED-009 is recommended for use as an LED curable matte coating to be applied in-line over energy curable ink systems. Typical applications include offset and flexo printing on paper and select non-porous substrates where low gloss is desired. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- 60 degree gloss reading less than 15
- Excellent top cure
- Excellent scuff and rub resistance
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Viscosity 21 - 24 sec. #3 Zahn
- Specific Gravity 1.12
- Solids > 99%

End Use Considerations

LED-009 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, energy curable 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 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. When in use, keep covered as much as possible. 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: 01/16/2017

Technical Data Sheet

LED-021

Gloss Litho LED OPV



Product Description

LED-021 is recommended for use as an LED gloss litho overprint varnish where high performance, high gloss and fast cure response are desired. LED-021 is formulated at a higher tack and viscosity to help perform better with aggressive fountain solutions. Typical applications include sheet-fed offset printing where the OPV is applied in-line over energy-curable litho ink on paper, folding carton and select plastic stocks. For additional information, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent litho properties; formulated to perform better with aggressive fount
- Adhesion to select plastic stocks
- Considered imprintable, foil-stampable, glueable, etc. (recommend testing first)

Physical Properties

- Viscosity 400 – 600 Poise (TA Rheometer)
- Tack 13 – 15 @ 800 rpm/1 minute
- Specific Gravity 1.04
- Solids > 99%

End Use Considerations

LED-021 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 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. When in use, keep covered as much as possible. 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: 01/16/2017

Technical Data Sheet

LED-025

Matte Litho LED OPV



Product Description

LED-025 is recommended for use as an LED litho 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 energy-curable litho ink on paper, folding carton and select plastic stocks. For additional information, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent cure response
- Excellent litho properties
- 60° gloss reading <15 (ink and substrate dependant)
- Adhesion to select plastic stocks
- Considered imprintable, foil-stampable, glueable, etc. (recommend testing first)

Physical Properties

- | | |
|--------------------|--------------------------------|
| • Viscosity | 550 – 750 Poise (TA Rheometer) |
| • Tack | 10 – 12 @ 800 rpm/1 minute |
| • Specific Gravity | 1.11 |
| • Solids | > 99% |

End Use Considerations

LED-025 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 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. When in use, keep covered as much as possible. 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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