

Technical Data Sheet



KB-3011

Smooth Strike-Thru Matte SF OPV

Product Description

KB-3011 is a matte sheetfed OPV formulated for use in AQ or UV Strike-Thru systems where optimum contrast and quick turn around are desired. This overprint is specifically formulated to be used only during Strike-Thru applications where the spot applied overprint is flood coated with Kustom Group coatings recommended below. **This product is not intended to be used as a stand alone overprint.**

Performance Characteristics

- Excellent litho properties
- Extreme matte contrast when printed over heavy ink coverage
- Fast set and dry for quicker finishing opportunities
- Best results obtained when thicker film is applied

Physical Properties

Tack	7.0 – 9.0 @ 1200 rpm/1 minute
Solids	57 - 59%

Special Instructions

For AQ Strike-Thru, **KS-9000** is recommended.

For UV Strike-Thru on paper, **KS-453** is the recommended coating.

For UV Strike-Thru on C1S and SBS, **KS-665LV** is the recommended coating.

Due to the high percentage of matting agent and the low viscosity of this product the following precautions should be observed:

1. pH of fountain solution should be kept above 4.0 to prevent retardation of drying.
2. Reduce water settings on press as much as possible.
3. Oxidative dry and the potential for piling is adversely affected if above instructions are not adhered.

KB-3011 is an oil based product containing chemicals that may cause premature wear of EPDM rollers when prolonged exposure occurs. Although exposure is typically minimal, it is recommended to use hybrid rollers similar to Chameleon style rollers.

FOR YOUR PROTECTION:

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DATE REVISED: 07/11/2018

Technical Data Sheet

KB-3074

Smooth Strike-Thru Matte SF OPV



Product Description

KB-3074 is an alternative product to our KB-3026. **KB-3074** dries slightly faster and has a reduced percentage of matting agent to widen the litho window on some presses. This overprint is specifically formulated to be used only during Strike-Thru applications where the overprint is flood coated with KS-9000. **Do not use this product as a stand alone overprint.**

Performance Characteristics

- Excellent litho properties
- Extreme matte contrast when printed over heavy ink coverage
- Best results obtained when thicker film is applied

Physical Properties

Tack: 7.0 - 8.0 @ 1200 rpm/1 minute
Inkometer Stability: 0.5 – 1.0 typical tack rise per min. for 5 mins.
Solids: 72 – 74%

Special Instructions

Due to the high percentage of matting agent and the low viscosity of this product the following precautions should be observed:

1. pH of fountain solution should be kept above 4.0 to prevent retardation of drying.
2. Reduce water settings on press as much as possible.
3. Oxidative dry and the potential for piling is adversely affected if above instructions are not adhered.

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DATE REVISED: 02/02/2015

Technical Data Sheet

KB-3115

UV Reticulation Strike-Thru SF OPV



Product Description

KB-3115 is a matte sheetfed OPV formulated for use in UV Strike-Thru systems where a reticulation effect and optimum contrast are desired. This overprint is specifically formulated to be used only during Strike-Thru applications where the spot applied overprint is flood coated with KS-688, Gloss UV Coating, or KS-428, BZP Free Gloss Coating. **This product is not intended to be used as a stand alone overprint.**

Performance Characteristics

- Excellent litho properties
- Extreme matte contrast when printed over heavy ink coverage
- Reticulates UV coating for visual lay contrast
- Best results obtained when thicker film is applied

Physical Properties

Tack: 5.0 – 9.0 @ 1200 rpm/1 minute
Solids: 79 - 81%

Special Instructions

Due to the high percentage of matting agent and the low viscosity of this product the following precautions should be observed:

1. pH of fountain solution should be kept above 4.0 to prevent retardation of drying.
2. Reduce water settings on press as much as possible.
3. Oxidative dry and the potential for piling is adversely affected if above instructions are not adhered.

KB-3115 is an oil based product containing chemicals that may cause premature wear of EPDM rollers when prolonged exposure occurs. Although exposure is typically minimal, it is recommended to use hydrid rollers similar to Chameleon style rollers.

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DATE REVISED: 05/22/2017

Technical Data Sheet

KB-3116

Smooth Strike-Thru SF OPV for UV



Product Description

KB-3116 is a matte litho overprint varnish specifically formulated for Strike-Thru applications. **KB-3116 IS NOT INTENDED TO BE USED AS A STAND-ALONE OVERPRINT VARNISH.** Strike-Thru is a visual effect that has wide appeal for many applications on paper and paperboard substrates. Strike-Thru is achieved by printing KB-3116 in the last printing unit and flood coating the entire sheet with KS-453 Strike-Thru Gloss UV Coating. The result is a very pronounced contrast between the gloss and matte portions of the sheet with a single pass through the press.

Performance Characteristics

- Excellent litho properties
- Excellent matte contrast when printed over heavy ink coverage
- Best results obtained when thicker film is applied

Physical Properties

Tack 6.0 - 10.0 @ 1200 rpm/1 minute
Inkometer Stability 0.3 - 0.8 typical tack rise per min. for 5 mins.
Solids 73 - 75%

Special Instructions

Due to the high percentage of matting agent and the low viscosity of this product the following precautions should be observed:

1. pH of fountain solution should be kept above 4.0 to prevent retardation of the drying.
2. Reduce water settings on press as much as possible.
3. Oxidative dry and the potential for piling is adversely affected if above instructions are not adhered to.

KB-3116 is an oil based product containing chemicals that may cause premature wear of EPDM rollers when prolonged exposure occurs. Although exposure is typically minimal, it is recommended to use hydrid rollers similar to Chameleon style rollers.

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DATE REVISED: 05/22/2017

Technical Data Sheet

KB-3199

Reticulation Strike-Thru Matte OPV



Product Description

KB-3199 is a matte OPV formulated for use in UV Strike-Thru systems where a reticulation effect and optimum contrast are desired. This overprint is specifically formulated to be used only during Strike-Thru applications where the spot applied overprint is flood coated with KS-460 Gloss UV Coating. **Please keep in mind that KB-3199 does contain drier, precautions should be taken if used for heatset applications where skin formation may be an issue in pumping systems.**

This product is not intended to be used as a stand alone overprint.

Performance Characteristics

- Excellent litho properties
- Extreme matte contrast when printed over heavy ink coverage
- Reticulates UV coating for visual lay contrast
- Best results obtained when thicker film is applied

Physical Properties

Tack:	5.0 – 9.0 @ 1200 rpm/1 minute
Solids:	79 - 81%

Special Instructions

Due to the high percentage of matting agent and the low viscosity of this product the following precautions should be observed:

1. pH of fountain solution should be kept above 4.0 to prevent retardation of drying.
2. Reduce water settings on press as much as possible.
3. Oxidative dry and the potential for piling is adversely affected if above instructions are not adhered.

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DATE REVISED: 06/04/2015

Technical Data Sheet

KB-3217

Wet EC Ink Smooth Strike-Thru SF OPV



Product Description

KB-3217 is an oil based matte sheeffed OPV formulated for use in LED, LE-UV or H-UV Strike-Thru systems where optimum contrast and quick turn around are desired. This overprint is specifically formulated to be used only during Strike-Thru applications where the spot applied overprint is flood coated with KS-494 Gloss UV Coating or LED-030 Strike-Thru LED Coating for Offset Gap. **This product is not intended to be used as a stand alone overprint.**

Performance Characteristics

- Excellent litho properties
- Extreme matte contrast when printed over heavy ink coverage
- Fast set and dry for quicker finishing opportunities
- Best results obtained when thicker film is applied

Physical Properties

Tack	7.0 – 9.0 @ 1200 rpm/1 minute
Solids	57 - 59%

Special Instructions

Due to the high percentage of matting agent and the low viscosity of this product the following precautions should be observed:

1. pH of fountain solution should be kept above 4.0 to prevent retardation of drying.
2. Reduce water settings on press as much as possible.
3. Oxidative dry and the potential for piling is adversely affected if above instructions are not adhered.

KB-3217 is an oil based product containing chemicals that may cause premature wear of EPDM rollers when prolonged exposure occurs. Although exposure is typically minimal, it is recommended to use hydrid rollers similar to Chameleon style rollers.

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DATE REVISED: 06/25/2018

Technical Data Sheet



KB-8901

BPA Free Matte SF OPV

Product Description

KB-8901 exhibits a matte finish and excellent dry in a low yellowing OPV. Applications include general purpose, folding carton and labels.

Performance Characteristics

- BPA Free
- Made with Swiss Ordinance and Nestle compliant materials
- Matte appearance
- Low yellowing
- Fast oxidative dry

Physical Properties

Tack:	5.0 – 6.0 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	0.5 - 1.0 typical tack rise per minute for 10 minutes
Laray Viscosity:	140 – 190 Poise
Yield Value:	500 – 1000 dynes/cm ²
Oxidative Dry:	3 hrs max.
Solids:	98-100%

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DATE REVISED: 03/08/2019

Technical Data Sheet

KS-453

High Gloss UV Coating for Smooth Strike-Thru



Product Description

KS-453 is the recommended UV coating for Smooth Strike-Thru. Smooth Strike-Thru is accomplished by flood coating KS-453 in-line wet trap over Kustom oil based Sheeffed Strike-Thru OPV. This system when applied correctly, will give a gloss/matte contrast in one pass through the press. This can be applied inline over UV or hybrid ink, or off line over dried oil-based ink. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Recommended UV coating for smooth Strike-Thru
- Excellent gloss and clarity
- Excellent cure response
- Good adhesion to select plastic stocks
- Not considered foil-stampable or imprintable

Physical Properties

- Viscosity 10 - 12 sec. #3 Zahn
- Specific Gravity 1.08
- Solids > 99%

End Use Considerations

KS-453 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some ink systems. A primer may be considered for use if this property needs to be improved.

Storage and Handling Information

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: 10/11/2017

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 Group representative.

Performance Characteristics

- Excellent gloss and clarity
- Excellent cure response
- Excellent foil-stampability and 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

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: 01/22/2019

Technical Data Sheet

KS-494

Imprintable/Glueable Gloss UV Coating



Product Description

KS-494 is recommended for use where UV coating needs to be foil-stamped, glued or imprinted. Typical applications include paper, paperboard and select plastic stocks. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- High gloss and clarity
- Imprintable, foil stampable, glueable ...
- Excellent cure response
- Good adhesion to select plastic stocks

Physical Properties

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

End Use Considerations

KS-494 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some ink systems. A primer may be considered for use if this property needs to be improved.

Storage and Handling Information

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

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DATE REVISED: 03/13/2017

Technical Data Sheet

KS-568

Strike-Thru Matte UV OPV



Product Description

KS-568 is a UV overprint varnish formulated to provide a matte appearance when a gloss UV coating is flood applied across the entire sheet and can create various All UV Strike-Thru effects. For smooth strike-thru, KS-494 UV Coating should be applied over cured KS-568 UV OPV. Dry trapping KS-460 UV Coating inline over KS-568 UV OPV can create a reticulation Strike-Thru effect. KS-568 must be cured prior to coating application to achieve proper contrast and effect. 50 – 60 points contrast with a 60 degree gloss meter can be achieved between the UV OPV and UV coating portions of the sheet with a single pass through the press.

Performance Characteristics

- Various Strike-Thru effects; Reticulation and Smooth
- Recommended anilox 6 - 9 BCM
- Benzophenone (BZP) free
- Excellent litho properties
- Excellent gloss/matte contrast
- Full UV OPV

Physical Properties

Solids	> 99 %
Specific Gravity	1.12
Viscosity	300 - 500 Poise (TA Rheometer)
Tack	2.0 – 4.0 @ 1200 rpm/1 minute

Special Instructions

1. Reduce water settings on press as much as possible.
2. Need to apply 10-20% more volume to the sheet versus normal overprint.
3. Wash up with standard UV wash.

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DATE REVISED: 09/07/2017

Technical Data Sheet

KS-599

Reticulation Strike Thru Gloss Litho UV OPV



Product Description

KS-599 is a gloss UV overprint varnish specifically formulated for spot application under KS-460 to provide reticulation in specific areas of the UV overcoat. When wet trapped under KS-460, KS-599 causes the UV coating 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 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
- Excellent litho properties
- Adhesion to select plastic stocks
- NOT considered printable, foil-stampable, glueable, etc.

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-599 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: 05/22/2017

Technical Data Sheet

KS-665LV

Gloss UV Coating for Strike-Thru



Product Description

KS-665LV is the recommended UV coating for Smooth Strike-Thru on heavy, absorbent board like SUS and SBS. This system when applied correctly, will give a gloss/matte contrast in one pass through the press. This can be applied inline over UV or hybrid ink, or off line over dried oil-based ink. For additional information regarding assistance and applications, please contact your Kustom Group representative.

Performance Characteristics

- Recommended UV coating for smooth Strike-Thru on absorbent board
- Excellent gloss and clarity
- Excellent cure response
- May be considered for foil-stamping or imprinting in the gloss areas of the layout where ink and coating are the only layers. Must be tested under normal conditions to insure acceptability of all components.

Physical Properties

- | | |
|--------------------|----------------------|
| • Viscosity | 13 - 15 sec. #3 Zahn |
| • Specific Gravity | 1.08 |
| • Solids | > 99% |

End Use Considerations

KS-665LV should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some ink systems. A primer may be considered for use if this property needs to be improved.

Storage and Handling Information

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: 11/28/2018

Technical Data Sheet

KS-688

High Gloss UV Coating
for Reticulation Strike-Thru



Product Description

KS-688 is recommended for use as a Strike Thru UV coating to be applied in-line over a sheetfed Strike Thru OPV (KB-3115) and UV or hybrid UV ink systems. Typical applications include commercial sheetfed printing on paper or paperboard substrates. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent gloss and clarity
- Excellent cure response
- Not considered imprintable, foil-stampable, glueable, etc.

Physical Properties

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

End Use Considerations

KS-688 should be evaluated in the laboratory using the actual Strike-Thru sheetfed OPV (KB-3115), 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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DATE REVISED: 07/07/2017

Technical Data Sheet

KS-836

Ultra Reticulation Strike-Thru
Gloss Litho UV OPV



Product Description

KS-836 is a gloss UV overprint varnish specifically formulated for spot application under KS-494 or KS-693 to provide reticulation or beading in specific areas of the UV overcoat. When dry trapped under KS-494, KS-836 causes the UV coating to reticulate or bead up like rain on a windshield and provide a pattern different from the normal overall lay of the flood coating. KS-693 does the same but with a more open pattern and more tactile. 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
- Excellent litho properties
- Adhesion to select plastic stocks
- NOT considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- | | |
|--------------------|--------------------------------|
| • Viscosity | 450 – 550 Poise (TA Rheometer) |
| • Tack | 16 - 22 @ 800 rpm/1 minute |
| • Specific Gravity | 1.14 |
| • Solids | > 99% |

End Use Considerations

KS-836 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: 08/21/2018

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

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DATE REVISED: 12/28/2018

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.

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DATE REVISED: 12/28/2018

Technical Data Sheet

KS-4005

Low Odor Smooth Strike-Thru
Matte Litho UV OPV



Product Description

KS-4005 is a low odor gloss overprint specifically for Smooth Strike-Thru application. KS-4005 is designed to work exclusively with KS-4127 to create a smooth matte appearance where KS-4005 has been litho, spot applied and cured. The resulting smooth effect allows the graphics not covered with KS-4005 to stand out on the final printed piece. Folding carton and other paperboard applications for food packaging provide the greatest effect. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- Excellent cure response
- Excellent litho properties
- Benzophenone (BZP) and BPA free
- NOT considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- | | |
|--------------------|----------------------------------|
| • Viscosity | 1400 - 1800 Poise (TA Rheometer) |
| • Tack | 6 - 10 @ 800 rpm |
| • Specific Gravity | 1.14 |
| • Solids | > 99% |

End Use Considerations

KS-4005 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: 05/02/2017

Technical Data Sheet

KS-4127

Food Packaging Smooth Strike-Thru UV Coating



Product Description

KS-4127 is a low odor, gloss UV coating specifically formulated for Strike-Thru applications. When used in conjunction with KS-4005 Matte UV OPV, KS-4127 is applied over the entire printed piece creating high gloss over ink and substrate while matte over KS-4005 to create highlighted graphics. Folding carton and other paperboard applications for food packaging provide the greatest effect. For additional information regarding assistance and applications, please contact your KUSTOM SERVICES, INC. representative.

Performance Characteristics

- High gloss and clarity
- Benzophenone (BZP) and BPA free
- Low migration and odor
- Excellent cure response

Physical Properties

- | | |
|--------------------|----------------------|
| • Viscosity | 13 - 16 sec. #3 Zahn |
| • Specific Gravity | 1.05 |
| • Solids | > 99% |

End Use Considerations

KS-4127 should be evaluated under production conditions using the actual ink system and substrate to ensure that leveling, intercoat adhesion, gloss and other performance characteristics are acceptable. In general, UV coatings may not exhibit complete intercoat adhesion over some ink systems. A primer may be considered for use if this property needs to be improved.

Storage and Handling Information

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: 12/18/2017

TECHNICAL DATA SHEET

KS-7099



Nestle Compliant Gloss AQ Coating

PRODUCT DESCRIPTION

KS-7099 is an acrylic-based aqueous coating formulated with materials that are Nestle Compliant and listed on Part A or B of the Swiss Ordinance for application to paper and paperboard for packaging and labels where low odor and low migration are a concern. KS-7099 is typically applied in-line over wet or dry ink via an anilox coating system. Kustom Group's aqueous coatings do not contain zinc oxide, alcohol, or any HAP's materials.

PERFORMANCE CHARACTERISTICS

- Exhibits good gloss and clarity.
- Exhibits good rub and scuff resistance.
- **"MAY BE SUITABLE"** for some hot foil stamping, imprinting and gluing applications. Before doing so, KS-7099 should be completely evaluated under production conditions using the actual substrate and ink, as materials for foil stamping, imprinting and gluing vary from supplier-to-supplier. Feel free to contact Kustom Group for additional information.

PHYSICAL PROPERTIES

- **Viscosity:** 16 - 18" #3 Zahn (Signature) @ 77° F
- **pH:** 8.0 - 8.5 @ 77° F
- **Solids:** 40 - 45% Method 24
- **Shelf Life:** One year (unopened container)

PIGMENT SELECTION

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

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DATE REVISED 03/03/2015

TECHNICAL DATA SHEET

KS-9000

General Purpose AQ Coating



PRODUCT DESCRIPTION

KS-9000 is an acrylic-based aqueous coating for application to paper and paperboard with in-line coater/dampeners. Typical applications include commercial or folding carton sheetfed work when one coating is desired for broad use in the pressroom.

PERFORMANCE CHARACTERISTICS

- Exhibits excellent gloss and clarity.
- Exhibits excellent rub and scuff resistance.
- **"MAY BE SUITABLE"** for some hot foil stamping, imprinting and gluing applications. Before doing so, KS-9000 should be completely evaluated under production conditions using the actual substrate and ink, as materials for foil stamping, imprinting and gluing vary from supplier to supplier. Feel free to contact Kustom Group for additional information.
- Typically used for one-sided printing only but could be considered for some work & turn jobs.

PHYSICAL PROPERTIES

- **Viscosity:** 17 - 20" #3 Zahn (Signature) @ 77° F
- **pH:** 8.0 - 9.0 @ 77° F
- **Solids:** 34 - 39% Method 24
- **Shelf Life:** One year (unopened container)

PIGMENT SELECTION

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

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DATE REVISED 02/05/2018

TECHNICAL DATA SHEET

KS-9020

Premium Gloss AQ Coating



PRODUCT DESCRIPTION

KS-9020 is an acrylic-based aqueous coating for application to paper and paperboard with in-line coater/dampeners and blanket coaters. Typical applications include commercial or folding carton sheetfed work when highest possible gloss is desired.

PERFORMANCE CHARACTERISTICS

- Exhibits excellent gloss and clarity.
- Exhibits excellent rub and scuff resistance.
- **"MAY BE SUITABLE"** for some hot foil stamping, imprinting and gluing applications. Before doing so, KS-9020 should be completely evaluated under production conditions using the actual substrate and ink, as materials for foil stamping, imprinting and gluing vary from supplier-to-supplier. Feel free to contact Kustom Group for additional information.
- Recommended for one-sided printing only.

PHYSICAL PROPERTIES

- **Viscosity:** 22 - 24" #3 Zahn (Signature) @ 77° F
- **pH:** 8.0 – 9.0 @ 77° F
- **Solids:** 34 - 39% Method 24
- **Shelf Life:** One year (unopened container)

PIGMENT SELECTION

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

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DATE REVISED 02/05/2018

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.

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

LED-019

Gluable Gloss LED Coating for Offset Gap



Product Description

LED-019 is recommended for use as an LED curable gloss coating to be applied in-line over energy curable ink systems. Typical applications include offset printing on paper, paperboard, synthetics such as Polyart and Yupo and other select nonporous substrates. For additional information regarding assistance and applications, please contact your Kustom Group representative.

Performance Characteristics

- Excellent top cure
- Excellent scuff and rub resistance
- May be considered for foil stamping, gluing and additional coating

Physical Properties

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

End Use Considerations

LED-019 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: 01/02/2019

Technical Data Sheet

LED-028

Ultra Reticulation Strike-Thru
Gloss Litho LED OPV



Product Description

LED-028 is a gloss LED overprint varnish specifically formulated for spot application under LED-019 to provide reticulation or beading in specific areas of the LED overcoat. When wet trapped under LED-019, LED-028 causes the LED coating to reticulate or bead up like rain on a windshield 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 LED or hybrid LED 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
- NOT considered imprintable, foil-stampable, glueable, etc.

Physical Properties

- Viscosity 450 – 550 Poise (TA Rheometer)
- Specific Gravity 1.14
- Solids > 99%

End Use Considerations

LED-028 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, LED 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: 01/02/2019