



# Most Popular Overprint Products

## Premium Sheetfed Gloss Overprint Varnishes

KB-3071	All purpose work & turn
KB-3060	All purpose gloss
KB-516	Highest rub
KB-500	High rub, lowest yellowing
KB-595	Highest gloss, high solids
KB-3144	Low COF gloss
KB-3138	Green Master

## Premium Sheetfed Matte Overprint Varnishes

KB-3083	Best litho matte, excellent hard film with good rub
KB-3064	Low matte
KB-564	Excellent rub and film properties

## Specialty Sheetfed Overprint Varnishes

KB-3014	Silver pearlescent gloss
KB-542	Heat-resistant for laser and non-porous substrates such as foil or plastic
KB-581	Chemical resistant

## Sheetfed Overprints for Non-Porous Substrates

KB-3075	Gloss
KB-3099	Matte

## Sheetfed Imprintable Overprints

KB-591	Wax free gloss
KB-3086	Polywax satin
KB-3005	Wax free matte

## Sheetfed Strike-Thru Overprints

KB-3074	Dull for Aqueous
KB-3115	Reticulation for UV on sheetfed press
KB-3011	Smooth for UV
KB-3199	Reticulation dull for UV on heatset press

## Sheetfed Compliant Overprints

KB-8700	Nestle and Swiss compliant gloss for Indirect food
KB-8800	Nestle and Swiss compliant satin for Indirect food
KB-8900	Nestle and Swiss compliant matte for Indirect food

## Heatset Imprintable Overprints

KB-3731 Wax free gloss  
KB-3732 Wax free satin

## Heatset Overprint Varnishes

KB-576 Fast setting workhorse gloss  
KB-3779 Low cost workhorse gloss  
KB-512 Fastest set, high rub, non marking gloss  
KB-552 Extremely low COF with high rub resistance  
KB-3784 Ultimate transfer tack stable gloss

KB-3708 Satin (50/50) with excellent litho properties  
KB-3741 Performance (60/40) satin  
KB-3742 Fast drying satin  
KB-3751 Fast setting, high rub heatset satin  
KB-3759 High slip and rub satin  
KB-3785 Ultimate transfer tack stable satin

KB-3740 Optimal matte with minimum burnishing  
KB-3729 High structured matte  
KB-3747 High slip and rub matte



# Technical Data Sheet



## KB-3071

All Purpose Work and Turn SF OPV

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### Product Description

**KB-3071** is an excellent combination of oxidative dry and fast set with high gloss. Applications include general purpose, folding carton and labels.

### Performance Characteristics

- Fast setting
- Excellent hold out
- Excellent gloss
- Good rub

### Physical Properties

Tack:	8.0 - 9.0 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability :	1.25 – 1.75 typical tack rise per minute for 5 minutes
Oxidative Dry :	2 - 3 hrs. / 0.5 mils on glass with film applicator
Solids :	63 – 65%

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# Technical Data Sheet



## KB-3060

All Purpose SF OPV

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### Product Description

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**KB-3060** is the best combination of oxidative dry and set with high gloss. Applications include general purpose, folding carton and labels.

### Performance Characteristics

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- Fast drying
- Excellent hold out
- Excellent gloss
- Good rub

### Physical Properties

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Tack:	9.0 – 10.0 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability :	1.0 – 1.5 typical tack rise per minute for 5 minutes
Oxidative Dry :	2 - 4 hrs. / 0.5 mils on glass with film applicator
Solids :	72 – 74%

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# Technical Data Sheet



## KB-516

Highest Rub Gloss SF OPV

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### **Product Description**

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KB-516 is our highest rub overprint formulated with high solids to exhibit excellent film integrity and gloss. Ideal for folding carton work or any sheetfed application where rub is important.

### **Performance Characteristics**

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- Highest rub
- Excellent gloss
- Highest solids
- Excellent oxidative dry
- Non imprintable

### **Physical Properties**

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Tack:	9.0 - 10.0 @ 90°F / 1200 rpm / 1minute
Inkometer Stability:	0.3 – 0.8 typical tack rise per minute for 5 minutes
Oxidative Dry:	3 - 4 hrs. / 0.5 mils on glass with film applicator
Solids:	82 – 84%

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# Technical Data Sheet



## KB-500

High Rub Lowest Yellowing  
High Gloss SF OPV

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### Product Description

Best combination of gloss, rub and non-yellowing with excellent oxidative dry properties. Applications include general purpose, folding carton, and labels.

### Performance Characteristics

- Very low yellowing
- Excellent gloss
- Good rub

### Physical Properties

Tack:	9.5 - 11.0 @ 90°F / 1200 rpm / 1-minute
Inkometer Stability:	0.5 - 1.0 typical tack rise per minute for 10 minutes
Laray Viscosity:	70 – 90 Poise
Oxidative Dry:	3 hrs max.
Solids:	72 – 74%

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# Technical Data Sheet



## KB-595

High Solids Highest Gloss SF OPV

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### Product Description

**KB-595** is our highest gloss overprint varnish. **KB-595** is formulated with high solids to exhibit excellent film integrity and gloss. Ideal for most sheetfed applications where gloss is the most important property.

### Performance Characteristics

- Excellent gloss
- High solids
- Excellent oxidative dry properties
- Non-imprintable

### Physical Properties

Tack:	9.0 - 10.0 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	0.3 – 0.8 typical tack rise per minute for 5 minutes
Oxidative Dry:	2 - 3 hrs. / 0.5 mils on glass with film applicator
Solids:	93 – 95%

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# Technical Data Sheet



## KB-3144

Low COF Gloss SF OPV

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### Product Description

**KB-3144** is formulated with a high slip package to give a low coefficient of friction along with excellent film integrity and gloss. Ideal for folding carton work or any sheetfed application where maximum slip is important.

### Performance Characteristics

- Low COF
- Excellent gloss
- High solids
- Excellent oxidative dry
- Non- imprintable

### Physical Properties

Tack:	7.0 - 9.0 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	0.3 – 0.8 typical tack rise per minute for 5 minutes
Oxidative Dry:	3 - 4 hrs. / 0.5 mils on glass with film applicator
Solids:	86 – 88%

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# Technical Data Sheet

## KB-3138

GreenMaster Gloss SF OPV



### Product Description

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**KB-3138** is a high gloss OPV formulated using specific raw materials which help render a smaller environmental footprint. Approximately 80% of **KB-3138** is derived from naturally occurring raw materials and can be considered sustainable and renewable. **KB-3138** is low in VOC's with fast set speed and excellent press stability achieving "Green Status" without compromising down stream properties. Typical applications include commercial sheetfed and folding carton work on paper, paperboard and other substrates.

### Performance Characteristics

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- 80% sustainable
- Fast set speed at high solids
- Easy clean up and less etch reduces pressroom VOC's
- Excellent ink water balance
- Exceptional hold-out

### Physical Properties

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Tack: 8.5 - 9.5 @ 1200 rpm / 1 minute  
Inkometer Stability: 0.3 – 0.8 typical tack rise / minute for 5 minutes  
Solids: 95 - 97 %  
NAPIM BRC\*: 75 - 85%  
\*Bio Renewable Content

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# Technical Data Sheet



## KB-3083

Matte SF OPV

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### Product Description

**KB-3083** is a high performance dull sheetfed overprint exhibiting gloss levels in the lab less than five on a 60-degree gloss meter when wet trapped over sheetfed oilbase ink. Under heat and shear **KB-3083** will maintain viscosity and litho properties superior to typical silica based matte overprints. **KB-3083** also has been formulated to exhibit excellent burnishing and mar resistance properties.

### Performance Characteristics

- Ultimate matte finish
- Superior litho properties to typical silica based matte overprint
- Excellent burnishing and mar resistance
- Positive film and rub properties after 72 hours

### Physical Properties

Tack:	4.0 - 6.0 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	0.7 – 1.2 typical tack rise per minute for 5 minutes
Oxidative Dry:	2 - 3 hrs. / 0.5 mils on glass with film applicator
Solids:	74 – 76%

**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.

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# Technical Data Sheet



## KB-3064

Matte SF OPV

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### **Product Description**

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**KB-3064** is one of our most matte overprints and its high solids formulation yields excellent non-piling properties.

### **Performance Characteristics**

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- Ultimate matte finish
- High solids
- Excellent film and rub properties after 72 hours

### **Physical Properties**

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Tack: 8.0 – 9.0 @ 90°F / 1200 rpm / 1 minute  
Inkometer Stability: 0.3 – 0.8 typical tack rise per minute for 5 minutes  
Oxidative Dry: 3 - 4 hrs. / 0.5 mils on glass with film applicator  
Solids: 88 – 90%

**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.

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# Technical Data Sheet



## KB-564

High Rub Matte SF OPV

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### Product Description

**KB-564** is formulated with excellent film properties and high rub resistance. **KB-564** has an excellent matte finish and will give the perfect amount of contrast with standard gloss inks or high quality coated stock.

### Performance Characteristics

- Matte finish
- High rub
- Low yellowing

### Physical Properties

Tack:	5.0 – 7.0 @ 90°F / 1200 rpm / 1minute
Inkometer Stability:	0.5 – 1.0 typical tack rise per minute for 5 minutes
Oxidative Dry:	2 - 4 hrs. / 0.5 mils on glass with film applicator
Solids:	74 – 76%

**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.

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# Technical Data Sheet



## KB-3014

Pearlescent SF OPV

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### Product Description

**KB-3014** is formulated to provide a pearlescent effect with low yellowing and good oxidative dry properties. Typical applications are general purpose, folding carton and labels where a pearl sheen is desired.

### Performance Characteristics

- Excellent pearl appearance
- Low yellowing
- Positive dry

### Physical Properties

Tack: 2.0 – 5.0 @ 1200 rpm, 30 sec.  
Inkometer Stability: Not applicable  
Solids: 88 – 90%

### Special Instructions

- Extra inking of the printing unit using the pearlescent OPV prior to printing is essential.
- Increased film thickness provides a more pronounced pearlescent effect.
- Double bumping the OPV may be necessary to achieve the highest level of pearlescent effect.
- Keep water settings at a minimum.

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# Technical Data Sheet



## KB-542

Heat Resistant SF OPV

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### Product Description

**KB-542** is a high solids overprint varnish developed to withstand high heat applications such as laser printing. It is an excellent choice for plastic stock and all non-porous type substrates as well when dry trapping over sheetfed ink.

### Performance Characteristics

- High heat resistance
- Adhesion to plastic / non-porous substrates
- Excellent rub
- High solids

### Physical Properties

Tack:	9.0 - 10.0 @ 90°F / 1200 rpm / 1minute
Inkometer Stability:	0.1 – 0.6 typical tack rise per minute for 5 minutes
Oxidative Dry:	< 3.5 hrs. / 0.5 mils on glass with film applicator
Solids:	82 – 84%

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# Technical Data Sheet



## KB-581

Chemical Resistant SF OPV

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### Product Description

**KB-581** is specifically formulated for applications requiring chemical resistance. Applications include general purpose, folding carton and labels.

### Performance Characteristics

- Alkali, alcohol and grease resistant
- Excellent rub resistance
- Excellent oxidative dry properties
- Non-imprintable

### Physical Properties

Tack:	7.5 – 8.5 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	0.0 – 0.5 typical tack rise per minute for 5 minutes
Oxidative Dry:	2.0 – 4.0 hrs. / 0.5 mils on glass with film applicator
Solids:	81 – 83%

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# Technical Data Sheet



## KB-3075

Hard Dry Gloss SF OPV for Plastic

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### Product Description

**KB-3075** is a high solids gloss overprint varnish developed to set and dry extremely fast with total through dry within 24 hours. **KB-3075** is formulated with proprietary resins and reducers proven to wet and adhere to the most problematic laminates and plastic stocks. This OPV is a unique combination of ultra fast set and high solids making it an excellent choice for wet or dry trapping over sheetfed ink.

### Performance Characteristics

- Adhesion to plastic/non-porous substrates
- Heat resistant
- Excellent rub
- Non-imprintable

### Physical Properties

Tack:	9.0 – 11.0 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	0.1 - 0.6 typical tack rise per minute for 5 minutes
Oxidative Dry:	1.5 – 3.0 hrs. / 0.5 mils on glass with film applicator
Solids:	73 - 75%

### Recommendations for litho printing plastics

- Substrate variation requires obtaining samples of the exact lot of plastic to be printed.
- Supply the strongest inks possible to encourage a thin ink film.
- Pre test every lot of ink to ensure adequate dry time.
- Avoid IR heat. Plastic substrates; especially cling vinyl, contain plasticizer that can migrate when exposed to IR heat causing slow dry and adhesion failure.

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# Technical Data Sheet

## KB-3099

Fast Dry Matte SF OPV for Laminate

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### Product Description

**KB-3099** is a high solids dull overprint varnish developed to set and dry extremely fast with total through dry within 24 hours. **KB-3099** is formulated with proprietary resins and reducers specifically to wet and adhere to the most problematic laminates and plastic stocks. This overprint is an excellent choice for wet or dry trapping over sheetfed ink with the unique combination of ultra fast set and high solids.

### Performance Characteristics

- Excellent adhesion to low dyne film laminates, plastics and over dry inks containing wax
- Average gloss reading of 6; 60 degree gloss meter
- Fast setting and high solids
- Excellent rub

### Physical Properties

Tack:	7 - 9 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	0.3 - 0.9 typical tack rise per minute for 5 minutes
Oxidative Dry:	2 - 3 hrs. / 0.5 mils on glass with film applicator
Solids:	84 - 86%

**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.

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# Technical Data Sheet



## KB-591

Wax Free Gloss SF OPV

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### Product Description

**KB-591** is formulated to be imprintable under most circumstances; testing prior to completing a job is necessary. **KB-591** is formulated with high solids and excellent oxidative dry properties.

### Performance Characteristics

- Imprintable (test under press conditions)
- High gloss
- Excellent oxidative dry

### Physical Properties

Tack:	9.0 - 10.0 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability :	0.3 - 0.8 typical tack rise per minute for 5 minutes
Oxidative Dry :	2.5 - 3.5 hrs. / 0.5 mils on glass with film applicator
Solids :	84 - 86%

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# Technical Data Sheet

## KB-3086

Imprintable Satin SF OPV

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### Product Description

**KB-3086** is formulated to be imprintable under most circumstances. **KB-3086** exhibits very fast set speed with good oxidative dry and has a soft satin finish which gives a subtle contrast with standard gloss inks or high quality coated stock.

### Performance Characteristics

- Satin finish
- Fast setting
- Imprintable (test in production)

### Physical Properties

Tack:	8.0 – 9.0 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	1.25 – 1.75 typical tack rise per minute for 5 minutes
Oxidative Dry:	2 - 3 hrs. / 0.5 mils on glass with film applicator
Solids :	68 – 70%

**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.

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# Technical Data Sheet



## KB-3005

Wax Free Ultimate Matte SF OPV

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### **Product Description**

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**KB-3005** is one of our most matte overprints and its high solids formulation yields excellent non-piling properties.

### **Performance Characteristics**

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- Ultimate matte finish
- High solids
- Excellent film and rub properties after 72 hours

### **Physical Properties**

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Tack: 6.5 – 7.0 @ 90°F / 1200 rpm / 1 minute  
Inkometer Stability: 0.3 – 0.8 typical tack rise per minute for 5 minutes  
Oxidative Dry: 2 - 3 hrs. / 0.5 mils on glass with film applicator  
Solids: 81 – 83%

**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.

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# Technical Data Sheet



## KB-3074

Smooth Strike-Thru Matte SF OPV

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### Product Description

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**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

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

### Physical Properties

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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

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**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.

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

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DATE REVISED: 01/04/2016

# Technical Data Sheet

## KB-3115

UV Reticulation Strike-Thru SF OPV



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### Product Description

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**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.**

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### Performance Characteristics

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- 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

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### Physical Properties

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

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### Special Instructions

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**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.

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

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DATE REVISED: 01/04/2016

# Technical Data Sheet

## KB-3011

Smooth Strike-Thru SF OPV



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### Product Description

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**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 KS-9000, Gloss AQ Coating, or KS-453, Gloss UV Coating. **This product is not intended to be used as a stand alone overprint.**

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### Performance Characteristics

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- 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

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### Physical Properties

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

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### Special Instructions

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**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: 01/04/2016

# Technical Data Sheet



## KB-3199

### Reticulation Strike-Thru Matte OPV

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#### Product Description

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**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

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- 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

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

#### Special Instructions

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**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: 01/04/2016



# Technical Data Sheet



## KB-8700

Gloss Indirect Food Contact SF OPV

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### Product Description

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**KB-8700** exhibits excellent gloss and dry in a low yellowing OPV. Applications include general purpose, folding carton and labels.

### Performance Characteristics

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- FDA compliant for Indirect Food Contact under 21 CFR 175.300\*
- Made with Swiss Ordinance and Nestle compliant materials
- High gloss
- Low yellowing
- Fast oxidative dry

### Physical Properties

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Tack:	8.0 – 9.0 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	0.5 - 1.0 typical tack rise per minute for 10 minutes
Laray Viscosity:	80 – 125 Poise
Yield Value:	1000 – 1800 dynes/cm <sup>2</sup>
Oxidative Dry:	3 hrs max.
Solids:	98-100%

\* The non-volatile components of this product are individually listed by and are in compliance with the Food & Drug Administration (FDA) under 21 CFR 175.300 Resinous and Polymeric Coatings when used in accordance with any specifications and limitations therein.

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DATE REVISED: 12/23/2015

# Technical Data Sheet



## KB-8800

Satin Indirect Food Contact SF OPV

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### Product Description

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**KB-8800** exhibits a satin finish and excellent dry in a low yellowing OPV. Applications include general purpose, folding carton and labels.

### Performance Characteristics

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- FDA compliant for Indirect Food Contact under 21 CFR 175.300\*
- Made with Swiss Ordinance and Nestle compliant materials
- Satin appearance
- Low yellowing
- Fast oxidative dry

### Physical Properties

---

Tack:	8.0 – 9.0 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	0.5 - 1.0 typical tack rise per minute for 10 minutes
Laray Viscosity:	100 – 150 Poise
Yield Value:	1500 – 2500 dynes/cm <sup>2</sup>
Oxidative Dry:	3 hrs max.
Solids:	98-100%

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DATE REVISED: 12/23/2015

# Technical Data Sheet



## KB-8900

Matte Indirect Food Contact SF OPV

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### Product Description

**KB-8900** exhibits a matte finish and excellent dry in a low yellowing OPV. Applications include general purpose, folding carton and labels.

### Performance Characteristics

- FDA compliant for Indirect Food Contact under 21 CFR 175.300\*
- 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:	150 – 200 Poise
Yield Value:	1000 – 1500 dynes/cm <sup>2</sup>
Oxidative Dry:	3 hrs max.
Solids:	98-100%

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DATE REVISED: 12/23/2015



# Technical Data Sheet

## KB-3731

### Wax Free Gloss HS OPV

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#### Product Description

**KB-3731** is a very fast setting heatset overprint without wax to allow finishing applications. **KB-3731** contains only high melt point resin that will out perform typical overprints for misting, press stability and maintain viscosity under high heat and shear.

#### Performance Characteristics

- Fast setting
- Foil stamping, imprintable, and coatable\*
- Low yellowing

\*Always test imprintability in the lab before proceeding to press.

#### Physical Properties

Tack:	6.0 – 8.0 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	0.8 - 1.3 typical tack rise per minute for 10 minutes
Laray Viscosity:	40 - 80 poise
Yield Value:	300 – 800 dynes/cm <sup>2</sup>
Solids:	46 – 48%

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DATE REVISED: 01/05/2016



# Technical Data Sheet

## KB-3732

### Wax Free Satin HS OPV

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#### **Product Description**

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**KB-3732** is a very fast setting heatset satin overprint without wax allowing finishing applications. **KB-3732** contains only high melt point resin that will out perform typical overprints for misting, press stability and maintain viscosity.

#### **Performance Characteristics**

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- Satin finish
- Suitable for foil stamping, UV coating and glue applications\*
- Fast drying

\*Always test imprintability in the lab before proceeding to press

#### **Physical Properties**

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Tack:	5.5 – 6.5 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	1.25 - 1.75 typical tack rise per minute for 10 minutes
Laray Viscosity:	30 - 60 poise
Yield Value:	300 – 700 dynes/cm <sup>2</sup>
Solids:	54 – 56%

**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.

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DATE REVISED: 01/05/2016

# Technical Data Sheet



## KB-576

Highest Gloss Low Yellowing HS OPV

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### Product Description

**KB-576** is a fast setting, high gloss heatset overprint offering high performance and broad use across the pressroom. **KB-576** has excellent non-yellowing properties and is a great choice as a general purpose overprint.

### Performance Characteristics

- Fast setting
- Excellent rub
- Water white

### Physical Properties

Tack:	5.0 – 6.0 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability :	0.8 – 1.3 typical tack rise per minute for 5 minutes
Laray Viscosity:	25 - 50 poise
Yield Value:	300 - 700 dynes/cm <sup>2</sup>
VOC's :	49 – 51%

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DATE REVISED: 01/05/2016

# Technical Data Sheet



## KB-3779

Gloss HS OPV

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### Product Description

KB-3779 is formulated to be your everyday heatset gloss overprint.

### Performance Characteristics

- Good gloss
- Above average rub
- Good litho properties

### Physical Properties

Tack:	4.5 – 6.5 @ 90°F/1200 rpm/1 minute
Inkometer Stability:	0.6 – 1.5 typical tack rise per minute for 10 minutes
Laray Viscosity:	40 – 80 poise
Yield Value	300 – 700 dynes/cm <sup>2</sup>
Solids:	54 - 56%

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DATE REVISED: 01/05/2016

# Technical Data Sheet



## KB-512

### Block Resistant Gloss Heatset OPV

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#### Product Description

**KB-512** is a very fast setting heatset overprint with a slip package that exhibits excellent block resistance. **KB-512** contains only high melt point resin that will out perform typical overprints for misting, press stability, and maintaining viscosity under high heat and shear.

#### Performance Characteristics

- Fast setting
- Block resistant
- Excellent rub

#### Physical Properties

Tack:	4.7 – 5.2 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	0.8 - 1.3 typical tack rise per minute for 10 minutes
Laray Viscosity:	40 - 60 poise
Laray Yield Value:	250 – 450 dynes/cm <sup>2</sup>
Solids:	46 – 48%

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DATE REVISED: 01/05/2016



# Technical Data Sheet



## KB-552

High Rub High Slip HS OPV

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### Product Description

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**KB-552** is a fast setting heatset overprint with a wax package that exhibits an extremely low coefficient of friction. This overprint is also very low yellowing with superb rub properties. **KB-552** is an excellent choice to eliminate chill roll buildup or angle bar marking.

### Performance Characteristics

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- Fast setting
- Excellent rub
- Low coefficient of friction
- Eliminates chill roll buildup and marking issues

### Physical Properties

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Tack:	5.5 – 6.2 @ 90°F / 1200 rpm / 1minute
Inkometer Stability :	1.0 – 1.5 typical tack rise per minute for 5 minutes
Laray Viscosity:	30 - 50 poise
Yield Value:	550 - 750
Solids :	52 - 54%

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DATE REVISED: 01/05/2016

# Technical Data Sheet



## KB-3784

Ultimate Transfer Tack Stable Gloss HS OPV

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### Product Description

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**KB-3784** is a very fast setting, tack stable heatset overprint with a slip package exhibiting excellent block resistance. **KB-3784** contains only high melt point resin that out perform typical overprints for misting, press stability and maintain viscosity under high heat and shear.

### Performance Characteristics

---

- Tack stable
- Fast setting
- Block resistant
- Excellent rub
- Enhanced transfer

### Physical Properties

---

Tack:	4.5 – 5.0 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	0.35 - 0.55 typical tack rise per minute for 10 minutes
Laray Viscosity:	50 - 100 poise
Yield Value:	1500 - 2500 dynes/cm <sup>2</sup>
Solids:	51 - 53%

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DATE REVISED: 01/05/2016



# Technical Data Sheet

## KB-3708

50/50 Satin HS OPV

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### Product Description

**KB-3708** is a fast drying web overprint with a satin appearance similar to what is achieved when combining 50% gloss overprint with 50% dull overprint. Expect excellent litho and rub properties from this workhorse satin overprint.

### Performance Characteristics

- Satin finish
- Fast drying
- Good rub properties
- Not suitable for UV coating, foil stamping, or glue application

### Physical Properties

Tack:	5.5 – 6.5 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	1.0 – 1.5 typical tack rise per minute for 5 minutes
Laray Viscosity:	30 – 60 poise
Yield Value:	300 – 700 dynes/cm <sup>2</sup>
Solids:	54 – 56%

**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.

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DATE REVISED: 01/05/2016



## Technical Data Sheet

# KB-3741

Performance Satin HS OPV

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### Product Description

**KB-3741** solves emulsification and piling issues normally associated with satin finish web overprints. **KB-3741** provides optimal transfer and non-piling properties with a satin finish.

### Performance Characteristics

- Best litho properties of any web overprint varnish
- Satin finish
- Excellent transfer and blanket release
- Good rub

### Physical Properties

Tack:	5.5 – 6.5 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	1.0 - 1.5 typical tack rise per minute for 10 minutes
Laray Viscosity:	40 – 80 poise
Laray Yield Value:	400 - 800 dynes/cm <sup>2</sup>
Solids:	54 – 56%

**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.

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DATE REVISED: 01/05/2016



## Technical Data Sheet

# KB-3742

Satin HS OPV

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### **Product Description**

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**KB-3742** is a fast drying web overprint with a satin appearance. **KB-3742** has a low tack with good structure to aid in its excellent litho and rub properties.

### **Performance Characteristics**

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- Satin finish
- Fast drying
- Good rub properties
- Not suitable for UV coating, foil stamping, or glue application.

### **Physical Properties**

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Tack:	5.5 – 6.5 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	1.5 – 2.0 typical tack rise per minute for 5 minutes
Dynamic Viscosity:	100 - 160 poise
Solids:	50 – 52%

**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.

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DATE REVISED: 01/05/2016



## Technical Data Sheet

# KB-3751

High Slip and Rub Satin HS OPV

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### Product Description

**KB-3751** is a very fast setting heatset overprint with a slip package that exhibits excellent block resistance. **KB-3751** contains only high melt point resin that out performs typical overprints for misting, press stability and maintaining viscosity under high heat and shear.

### Performance Characteristics

- Satin finish
- Fast setting
- Excellent rub properties
- Block resistant

### Physical Properties

Tack:	5.0 – 6.0 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	1.0 – 1.5 typical tack rise per minute for 5 minutes
Laray Viscosity:	50 – 80 poise
Yield Value:	800 – 1400 dynes/cm <sup>2</sup>
Solids:	55 – 57%

**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.

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DATE REVISED: 01/05/2016

# Technical Data Sheet



## KB-3759

High Slip and Rub Satin HS OPV

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### Product Description

**KB-3759** is formulated with a high percentage of PTFE for ultimate high slip and rub properties.

### Performance Characteristics

- Satin finish
- Ultimate rub and slip properties
- Not suitable for UV coating, foil stamping, or glue applications

### Physical Properties

Tack: 3.5 – 4.5 @ 90°F / 1200 rpm / 1 minute  
Inkometer Stability: 1.25 – 1.75 typical tack rise per minute for 5 min.  
Solids: 52 – 54%

**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.

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DATE REVISED: 01/05/2016



## Technical Data Sheet

# KB-3785

Ultimate Transfer Tack Stable Satin HS OPV

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### Product Description

**KB-3785** is a very fast setting, tack stable heatset overprint with a slip package exhibiting excellent block resistance. **KB-3785** contains only high melt point resin that out performs typical overprints for misting, press stability and maintaining viscosity under high heat and shear.

### Performance Characteristics

- Tack stable
- Fast setting
- Block resistant
- Excellent rub
- Enhanced transfer

### Physical Properties

Tack:	5.0 – 5.5 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	0.35 - 0.55 typical tack rise per minute for 10 minutes
Laray Viscosity:	50 - 100 poise
Yield Value:	1500 - 3000 dynes/cm <sup>2</sup>
Solids:	51 - 53%

**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.

### FOR YOUR PROTECTION:

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

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## Technical Data Sheet

# KB-3740

Performance Matte HS OPV

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### Product Description

**KB-3740** solves problems of emulsification and piling normally associated with high matte finish web overprints. **KB-3740** provides optimal transfer and non-piling properties with a matte finish.

### Performance Characteristics

- Best litho properties of any web overprint varnish
- Matte finish
- Excellent transfer and blanket release
- Good rub

### Physical Properties

Tack:	5.5 – 6.5 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	1.0 - 1.5 typical tack rise per minute for 10 minutes
Laray Viscosity:	100 – 150 poise
Laray Yield Value:	1200 - 1800 dynes/cm <sup>2</sup>
Solids:	57 – 59%

**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.

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## Technical Data Sheet

# KB-3729

High Structured Matte HS OPV

### Product Description

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**KB-3729** is formulated to give an optimal matte finish and non-burnishing characteristics with excellent misting and hold out properties.

### Performance Characteristics

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- Matte finish
- Excellent misting and hold out properties
- Low yellowing

### Physical Properties

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Tack:	4.5 - 5.5 @ 90°F / 1200 rpm / 1 minute
Inkometer Stability:	1.0 - 1.5 typical tack rise per minute for 10 minutes
Laray Viscosity:	70 – 125 poise
Yield Value:	3000 – 4000 dynes/cm <sup>2</sup>
Solids:	43 – 45%

**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.

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

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## Technical Data Sheet

# KB-3747

High Slip and Rub Matte HS OPV

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### Product Description

**KB-3747** is formulated to give optimal mattiness with minimal burnishing and excellent rub. **KB-3747** provides good litho and drying properties.

### Performance Characteristics

- Matte finish
- Excellent rub
- Low yellowing
- Not suitable for UV coating, foil stamping, or glue application

### Physical Properties

Tack:	5.0 – 6.0 @ 1200 rpm / 1 minute
Inkometer Stability:	0.8 – 1.3 typical tack rise per min. for 10 mins.
Laray Viscosity:	50 – 80 poise
Yield Value	800 – 1400 dynes/cm <sup>2</sup>
Solids:	58 – 60%

**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.

### **FOR YOUR PROTECTION:**

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