

# UV & WATERBASED INKS AND COATINGS



# FLEXOGRAPHY LINE PRODUCTS OVERVIEW

## UV INKS

1. UV Curable Flexo Printing Inks
2. UV Curable Flexo Shrink-Sleeve Printing Inks
3. UV Curable Flexo Low Migration Printing Inks
4. UV Curable Letterpress Printing Inks

## UV COATINGS

1. UV Over Print Varnish Standard
2. UV Over Print Varnish High Adhesion
3. UV Over Print Varnish Flexible
4. UV Over Print Varnish High Slip
5. UV Over Print Varnish Benzophenone Free
6. UV Over Print Varnish , Low Migration
7. UV Over Print Varnish Hot Stamping
8. UV Over Print Varnish Anti-Static

## WATERBASED INKS

\*Benzophenone-Free versions of all UV products available on request



# FLEXOGRAPHY LINE PRODUCTS

## UV CURABLE INKS

### UV FLEXO PROCESS COLORS

Code	Product	Recommended Anilox Volume	Printing Speed	Viscosity	Odor	Adhesion	Packaging
→ 100711	UV FLEXO EXTRA YELLOW 21711-ITX FREE	2 - 2.5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 21376	UV FLEXO EXTRA MAGENTA 21376-ITX FREE	2 - 2.5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 21033	UV FLEXO EXTRA CYAN 21033-ITX FREE	2 - 2.5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 21317	UV FLEXO DENSE BLACK 2131-ITX FREE	2 - 2.5 bcm	Up to 150m/min	Low	Low	Good	5 KG

### UV FLEXO PLUS COLORS

→ 100642	UV FLEXO YELLOW PLUS 21100	2 - 2.5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 100640	UV FLEXO MAGENTA PLUS 21110	2 - 2.5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 101070	UV FLEXO CYAN PLUS 21120	2 - 2.5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 101347	UV FLEXO BLACK PLUS 21130	2 - 2.5 bcm	Up to 150m/min	Low	Low	Good	5 KG

### UV FLEXO ULTRA COLORS

→ 100354	UV FLEXO ULTRA YELLOW 21197-ITX FREE	1.5 - 2 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 100459	UV FLEXO ULTRA MAGENTA 21398-ITX FREE	1.5 - 2 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 100460	UV FLEXO ULTRA CYAN 21048-ITX FREE	1.5 - 2 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 100346	UV FLEXO ULTRA FLEXO 21994-ITX FREE	1.5 - 2 bcm	Up to 150m/min	Low	Low	Good	5 KG

# FLEXOGRAPHY LINE PRODUCTS

## UV CURABLE INKS

### UV FLEXO BASE COLORS

Code	Product	Recommended Anilox Volume	Printing Speed	Viscosity	Odor	Adhesion	Packaging
→ 21183	UV FLEXO YELLOW LF 21183-ITX FREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 21187	UV FLEXO BASE YELLOW 21187-ITX FREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 21812	UV FLEXO ORANGE 21812-ITX FREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 21377	UV FLEXO WARM RED 21377-ITX FREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 101408	UV FLEXO RUBINE RED XT 21227-ITX FREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 21379	UV FLEXO RHODAMINE LF 21379-ITX FREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 21380	UV FLEXO RED O32 21380-ITX FREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 21382	UV FLEXO RUBINE RED LF 21382-ITX FREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 100251	UV FLEXO RHODAMINE RED 21921-ITX FREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 101409	UV FLEXO PR BLUE XT 21070-ITX FREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 21655	UV FLEXO VIOLET LF 21655-ITX FREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 21511	UV FLEXO GREEN 21511-ITX FREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 21323	UV FLEXO MIXING BLACK 21323-ITX FREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 21428	UV FLEXO TRANSPARENT WHITE 21428-ITX FREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 100916	UV FLEXO EXTRA OPAQUE WHITE 21437	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 100237	UV FLEXO EXTRA OPAQUE WHITE 21437	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 101418	EX UV FLEXO OPAQUE WHITE 21441-HA	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 100452	UV FLEXO EXTRA REFLEX BLUE 21044-ITXFREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 100264	UV FLEXO PURPLE 21657-ITXFREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG
→ 21656	UV FLEXO PURPLE LF 21656-ITX FREE	3 - 5 bcm	Up to 150m/min	Low	Low	Good	5 KG

# FLEXOGRAPHY LINE PRODUCTS

## UV CURABLE INKS

### UV FLEXO LOW ODOR COLORS

Code	Product	Recommended Anilox Volume	Printing Speed	Viscosity	Odor	Adhesion	Packaging
→ 101604	UV FLEXO PR. YELLOW LO 21200-ITXFREE	1.5 - 2 bcm	Up to 150m/min	Low	Very Low	Good	5 KG
→ 101606	UV FLEXO PR. MAGENTA LO 21828-ITXFREE	1.5 - 2 bcm	Up to 150m/min	Low	Very Low	Good	5 KG
→ 101605	UV FLEXO PR. CYAN LO 21078-ITXFREE	1.5 - 2 bcm	Up to 150m/min	Low	Very Low	Good	5 KG
→ 101607	UV FLEXO PR. BLACK LO 21829-ITXFREE	1.5 - 2 bcm	Up to 150m/min	Low	Very Low	Good	5 KG

### UV FLEXO FLUORESCENT COLORS

→ 101489	UV FLEXO FLUORESCENT 802 GREEN 21505	4 - 6 bcm	Up to 100m/min	Low	Low	Good	5 KG
→ 101314	UV FLEXO FLUORESCENT 803 YELLOW 21500	4 - 6 bcm	Up to 100m/min	Low	Low	Good	5 KG
→ 101316	UV FLEXO FLUORESCENT 804 ORANGE 21502	4 - 6 bcm	Up to 100m/min	Low	Low	Good	5 KG
→ 101332	UV FLEXO FLUORESCENT 805 RED 21503	4 - 6 bcm	Up to 100m/min	Low	Low	Good	5 KG
→ 101561	UV FLEXO FLUORESCENT 806 PINK 21506	4 - 6 bcm	Up to 100m/min	Low	Low	Good	5 KG
→ 101351	UV FLEXO FLUORESCENT 807 MAGENTA 21504	4 - 6 bcm	Up to 100m/min	Low	Low	Good	5 KG
→ 101683	UV FLEXO FLUORESCENT 812 RED 21507	4 - 6 bcm	Up to 100m/min	Low	Low	Good	5 KG
→ 101315	UV FLEXO FLUORESCENT CHARTREUSE 21501	4 - 6 bcm	Up to 100m/min	Low	Low	Good	5 KG
→ 102002	UV FLEXO FLUORESCENT 801 BLUE 21508	4 - 6 bcm	Up to 100m/min	Low	Low	Good	5 KG

# FLEXOGRAPHY LINE PRODUCTS UV CURABLE LED INKS



## UV FLEXO LED PROCESS COLORS

Code	Product	Recommended Anilox Volume	Printing Speed	Viscosity	Odor	Adhesion	Packaging
→ 101999	UV FLEXO LED YELLOW 20150	2 - 2.5 bcm	Up to 100m/min	Low	Low	Good	5 KG
→ 102000	UV FLEXO LED MAGENTA 20200	2 - 2.5 bcm	Up to 100m/min	Low	Low	Good	5 KG
→ 102031	UV FLEXO LED CYAN 20250	2 - 2.5 bcm	Up to 100m/min	Low	Low	Good	5 KG
→ 102032	UV FLEXO LED BLACK 20300	2 - 2.5 bcm	Up to 100m/min	Low	Low	Good	5 KG
→ 101998	UV FLEXO LED WHITE 20100	2 - 2.5 bcm	Up to 100m/min	Low	Low	Good	5 KG

# FLEXOGRAPHY LINE PRODUCTS UV CURABLE LOW MIGRATION INKS



## UV FLEXO LOW MIGRATION PROCESS COLORS

Code	Product	Recommended Anilox Volume	Printing Speed	Viscosity	Odor	Adhesion	Packaging
→ 102005	UV FLEXO LOW MIGRATION YELLOW 21408	2 - 2.5 bcm	Up to 100m/min	Low	Low	Good	5 KG
→ 102006	UV FLEXO LOW MIGRATION MAGENTA 21801	2 - 2.5 bcm	Up to 100m/min	Low	Low	Good	5 KG
→ 102007	UV FLEXO LOW MIGRATION CYAN 21086	2 - 2.5 bcm	Up to 100m/min	Low	Low	Good	5 KG
→ 102016	UV FLEXO LOW MIGRATION BLACK 21301	2 - 2.5 bcm	Up to 100m/min	Low	Low	Good	5 KG
→ 100646	UV FLEXO LOW MIGRATION WHITE 21434	2 - 2.5 bcm	Up to 100m/min	Low	Low	Good	5 KG

# FLEXOGRAPHY LINE PRODUCTS UV CURABLE SHRINK SLEEVE INKS



## UV FLEXO SHRINK SLEEVE PROCESS COLORS

Code	Product	Recommended Anilox Volume	Printing Speed	Shrinkage	COF (N)	Viscosity	Odor	Adhesion	Packaging
→ 100678	UV FLEXO SLEEVE YELLOW 21184-ITXFREE	2 - 2.5 bcm	Up to 150m/min	Higher than 80%	-	Low	Low	Good	5 KG
→ 100679	UV FLEXO SLEEVE MAGENTA 21360-ITXFREE	2 - 2.5 bcm	Up to 150m/min	Higher than 80%	-	Low	Low	Good	5 KG
→ 100680	UV FLEXO SLEEVE CYAN 21027-ITXFREE	2 - 2.5 bcm	Up to 150m/min	Higher than 80%	-	Low	Low	Good	5 KG
→ 100681	UV FLEXO SLEEVE BLACK 21329-ITXFREE	2 - 2.5 bcm	Up to 150m/min	Higher than 80%	-	Low	Low	Good	5 KG
→ 101410	UV FLEXO SLEEVE WHITE 21440	3 - 6 bcm	Up to 150m/min	Higher than 80%	0.17	Low	Low	Good	5 KG
→ 101566	UV FLEXO SLEEVE WHITE 21444	3 - 6 bcm	Up to 150m/min	Higher than 80%	0.28	Low	Low	Good	5 KG
→ 101582	UV FLEXO SLEEVE WHITE 21420-LS	3 - 6 bcm	Up to 150m/min	Higher than 80%	0.22	Low	Low	Good	5 KG



# FLEXOGRAPHY LINE PRODUCTS

## UV CURABLE LETTERPRESS INKS

### UV FLEXO LETTERPRESS PROCESS COLORS

Code	Product	Recommended Volume g/sqm	Printing Speed	Viscosity	Odor	Adhesion	Packaging
→ 24154	UV L.PRESS PROCESS YELLOW 24154-ITXFREE	0.6 - 1.0	Up to 150m/min	High	Low	Good	2.5 KG
→ 24354	UV L.PRESS PROCESS MAGENTA 24354-ITXFREE	0.6 - 1.0	Up to 150m/min	High	Low	Good	2.5 KG
→ 24004	UV L.PRESS PROCESS CYAN 24004-ITXFREE	0.6 - 1.0	Up to 150m/min	High	Low	Good	2.5 KG
→ 100165	UV L.PRESS PROCESS BLACK 24864-ITXFREE	0.6 - 1.0	Up to 150m/min	High	Low	Good	2.5 KG
→ 24304	UV L.PRESS DENSE BLACK 24304-ITXFREE	0.6 - 1.0	Up to 150m/min	High	Low	Good	2.25 KG

### UV FLEXO LETTERPRESS BASE COLORS

→ 100284	UV L.PRESS YELLOW LF 24155-ITXFREE	0.8 - 1.2	Up to 150m/min	High	Low	Good	2.5 KG
→ 24804	UV L.PRESS ORANGE 24804-ITXFREE	0.8 - 1.2	Up to 150m/min	High	Low	Good	2.5 KG
→ 24203	UV L.PRESS WARM RED 24203-ITXFREE	0.8 - 1.2	Up to 150m/min	High	Low	Good	2.5 KG
→ 24204	UV L.PRESS RED O32 24204-ITXFREE	0.8 - 1.2	Up to 150m/min	High	Low	Good	2.5 KG
→ 24205	UV L.PRESS RUBINE RED 24205-ITXFREE	0.8 - 1.2	Up to 150m/min	High	Low	Good	2.5 KG
→ 24206	UV L.PRESS RHODAMINE RED LF 24206-ITXFREE	0.8 - 1.2	Up to 150m/min	High	Low	Good	2.5 KG
→ 24210	UV L.PRESS RUBINE RED LF 24210-ITXFREE	0.8 - 1.2	Up to 150m/min	High	Low	Good	2.5 KG
→ 24007	UV L.PRESS PROCESS BLUE 24007-ITXFREE	0.8 - 1.2	Up to 150m/min	High	Low	Good	2.5 KG
→ 24252	UV L.PRESS VIOLET LF 24252-ITXFREE	0.8 - 1.2	Up to 150m/min	High	Low	Good	2.5 KG
→ 24503	UV L.PRESS GREEN 24503-ITXFREE	0.8 - 1.2	Up to 150m/min	High	Low	Good	2.5 KG
→ 100451	UV L.PRESS RHODAMINE RED 24212-ITXFREE	0.8 - 1.2	Up to 150m/min	High	Low	Good	2.5 KG
→ 24403	UV L.PRESS TRANSPARENT WHITE 24403	-	Up to 150m/min	High	Low	Good	2.5 KG
→ 24404	UV L.PRESS OPAQUE WHITE 24404	1.5 - 2.5	Up to 150m/min	High	Low	Good	2.5 KG

# FLEXOGRAPHY LINE PRODUCTS

## UV CURABLE COATINGS

### UV FLEXO OVERPRINT VARNISH GLOSS

Code	Product	TECHNICAL SPECIFICATIONS				Benzophenone Free	Slip	Flexible	Odor	Adhesion	Double Sided Application	Anti Penetration
		Application	Gloss	Matt								
→ 12105	UV COATINGS FLEXO GLOSS 12105	Flexo	☑	☒	-	☒	●●	●	☑	●●	●●	☒
→ 12113	UV COATINGS FLEXO GLOSS 12113-FS	Flexo	☑	☒		☒	●●	●	☑	●●	●●	☒
→ 101868	UV COATINGS FLEXO GLOSS 12119	Flexo	☑	☒		☒	●●	●	☑	●●	●●	☒

### UV FLEXO OVERPRINT VARNISH HIGH ADHESION

→ 101655	UV COATINGS FLEXO COLDFOIL/PRIMER 32603	Flexo	☑	☒		☒	●	●●●	☑	●●●	●	☒
→ 32804	UV COATINGS FLEXO PRIMER PET 32804-1	Flexo	☑	☒		☒	●	●●●	☑	●●●	●	☒
→ 33001	UV COATINGS BARCODE 33001	Flexo	☑	☒		☒	●	●●	☑	●●●	●	☒
→ 100557	UV COATINGS LAMINATION PET 35002	Flexo	☒	☒		☒	●	●●●	☑	●●●	●	☒
→ 101455	UV COATINGS FLEXO PRIMER AL 32801	Flexo	☑	☒		☒	●	●●●	☑	●●●	●	☒
→ 101641	UV COATINGS LAMINATION 35029	Flexo	☑	☒		☒	●	●●●	☑	●●●	●	☑

Legend ●●● Good ●● Average ● Poor

\*Benzophenone-Free versions of all UV products available on request

# FLEXOGRAPHY LINE PRODUCTS UV CURABLE COATINGS

## UV FLEXO OVERPRINT VARNISH FLEXIBLE

Code	Product	TECHNICAL SPECIFICATIONS			Benzophenone Free	Slip	Flexible	Odor	Adhesion	Double Sided Application	Anti Penetration
		Application	Gloss	Matt							
→ 12102	UV COATINGS FLEXO GLOSS 12107-HS/MV	Flexo	☑	☒	☒	●●●	●●●	☑	●●●	●●●	☒
→ 12107	UV COATINGS FLEXO GLOSS 12107	Flexo	☑	☒	☒	●●	●●●	☑	●●●	●●	☒
→ 12141	UV COATINGS FLEXO GLOSS 12107-HA/LV/HS	Flexo	☑	☒	☒	●●●	●●●	☑	●●●	●●●	☒
→ 12143	UV COATINGS FLEXO GLOSS 12107-AP/LV	Flexo	☑	☒	☒	●●	●●●	☑	●●●	●●	☑
→ 100931	UV COATINGS FLEXO MATT 12225-FS	Flexo	☒	☑	☒	●●●	●●●	☑	●●●	●●●	☒
→ 101455	UV COATINGS FLEXO PRIMER AL 32801	Flexo	☑	☒	☑	●●●	●●●	☒	●●●	●	☒
→ 101655	UV COATINGS FLEXO COLDFOIL/PRIMER 32603	Flexo	☑	☒	☒	●	●●●	☑	●●●	●	☒
→ 32804	UV COATINGS FLEXO PRIMER PET 32804-1	Flexo	☒	☒	☒	●	●●●	☑	●●●	●	☒
→ 35028	UV COATINGS LAMINATION 35028	Flexo	☒	☒	☒	●	●●●	☑	●●●	●	☒
→ 100557	UV COATINGS LAMINATION PET 35002	Flexo	☒	☒	☒	●	●●●	☑	●●●	●	☒
→ 101455	UV COATINGS FLEXO PRIMER AL 32801	Flexo	☒	☒	☒	●	●●●	☑	●●●	●	☒

Legend ●●● Good ●● Average ● Poor

\*Benzophenone-Free versions of all UV products available on request

# FLEXOGRAPHY LINE PRODUCTS

## UV CURABLE COATINGS

### UV FLEXO OVERPRINT VARNISH HIGH SLIP

Code	Product	TECHNICAL SPECIFICATIONS			Benzophenone Free	Slip	Flexible	Odor	Adhesion	Double Sided Application	Anti Penetration
		Application	Gloss	Matt							
→ 12102	UV COATINGS FLEXO GLOSS 12107-HS/MV	Flexo	☑	☒	☒	●●●	●●●	☑	●●●	●●●	☒
→ 12141	UV COATINGS FLEXO GLOSS 12107-HA/LV/HS	Flexo	☑	☒	☒	●●●	●●●	☑	●●●	●●●	☒
→ 12305	UV COATINGS FLEXO GLOSS 12105-PVC	Flexo	☑	☒	☒	●●●	●●	☑	●●●	●●	☒
→ 101994	UV COATINGS RELEASE 32303	Flexo	☑	☒	☒	●●●	●●	☑	●●●	●	☒

### UV FLEXO OVERPRINT VARNISH BENZOPHENONE-FREE

→ 12618	UV COATINGS FLEXO GLOSS 12113-BF	Flexo	☑	☒		●●	●	☒	●●	●●	☒
→ 32751	UV COATINGS FLEXO HOTFOIL/PRIMER 32604-BF	Flexo	☑	☒	☑	●	●●●	☒	●●●	●	☒
→ 100032	UV COATINGS FLEXO GLOSS 12105-BF/HS	Flexo	☑	☒	☑	●●	●	☒	●●	●●	☒
→ 100553	UV COATINGS FLEXO GLOSS 12619-BH/HS	Flexo	☑	☒	☑	●●	●	☒	●●	●●	☒
→ 100554	UV COATINGS FLEXO GLOSS 12620-BF/FS/HS	Flexo	☑	☒	☑	●●	●	☒	●●	●●●	☒
→ 100555	UV COATINGS FLEXO GLOSS 12620-BF/INP	Flexo	☑	☒	☑	●	●●	☒	●●●	●	☒
→ 102033	UV COATINGS FLEXO MATT 12226-FS/BF	Flexo	☒	☑	☑	●●	●	☒	●●	●●	☒

Legend ●●● Good ●● Average ● Poor

\*Benzophenone-Free versions of all UV products available on request

# FLEXOGRAPHY LINE PRODUCTS

## UV CURABLE COATINGS

### UV FLEXO OVERPRINT VARNISH LOW MIGRATION

Code	Product	TECHNICAL SPECIFICATIONS			Benzophenone Free	Slip	Flexible	Odor	Adhesion	Double Sided Application	Anti Penetration
		Application	Gloss	Matt							
→ 101811	UV COATINGS FLEXO GLOSS 12900-LM/FS	Flexo	✓	⊗	✓	●●	●●●	⊗	●●●	●●	⊗
→ 102022	UV COATINGS FLEXO GLOSS 12901-LM/HS	Flexo	✓	⊗	✓	●●●	●●●	⊗	●●●	●●●	⊗
→ 101919	UV COATINGS FLEXO GLOSS 12902-LM/FS/INP	Flexo	✓	⊗	✓	●	●●●	⊗	●●●	●●●	⊗
→ 102023	UV COATINGS FLEXO MATT 12950-LM/FS/MA	Flexo	⊗	✓	✓	●	●●●	⊗	●●●	●	⊗

### UV FLEXO OVERPRINT VARNISH HOT STAMPING

→ 32604	UV COATINGS FLEXO HOTFOIL/PRIMER 32604	Flexo	✓	⊗	⊗	●●	●●●	✓	●●●	●	⊗
→ 32704	UV COATINGS FLEXO HOTFOIL/PRIMER 32604-MA	Flexo	⊗	✓	⊗	●●	●●●	✓	●●●	●	⊗
→ 32751	UV COATINGS FLEXO HOTFOIL/PRIMER 32604-BF	Flexo	✓	⊗	✓	●●	●●●	⊗	●●●	●	⊗

### UV FLEXO OVERPRINT VARNISH ANTI STATIC

→ 101263	UV COATINGS FLEXO GLOSS ANTISTATIC 12116	Flexo	✓	⊗	⊗	●●	●	✓	●●	●●	⊗
→ 101264	UV COATINGS FLEXO MATT ANTISTATIC 12224	Flexo	⊗	✓	⊗	●●●	●●●	✓	●●●	●●●	⊗

Legend ●●● Good ●● Average ● Poor

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## **FLEXOGRAPHY LINE PRODUCTS** **WATERBASED INKS**

Modern printing inks are required to deal with constantly changing application technologies and demands from the printers and end users. Development in printing substrates, requirements for faster printing speeds and more cost effective processes, and tougher environmental regulations, are challenges the ink manufacturers have to face. Flexography, a progressing printing technology, is suitable for printing on coated and uncoated paper materials, non-porous substrates including metallised and paper foils, and plastic films, used especially in the packaging industry. Flexographic printing is an efficient and cost effective printing method that owes its growth to the continuous improvements in the quality of the printed work produced. Water-based flexo inks, which were introduced in the 1930s and achieved significant commercial use in paper and paperboard printing during the 1950s and 1960s, are today used in almost all areas of flexographic printing. The regulatory factors especially during the 1980s, with its high pressure on safety and environment, were an important driving force for the further development of water-based technology. This technology continues to advance at the expense of solvent-based inks. Radiation curing inks, such as UV- and EB-curable (electron beam), are also widely used and are an increasing market. The quality of flexo prints is today on a level people only could dream of ten years ago.

The nature and demands of the printing process and the application of the printed product determine the fundamental properties required of flexographic inks. Measuring the physical properties of inks and

understanding how these are affected by the choice of ingredients is a large part of ink technology. Formulating inks requires a detailed knowledge of the physical and chemical properties of the raw materials composing the inks, and how these ingredients affect or react with each other as well as with the environment. Flexographic printing inks are primarily formulated to remain compatible with the wide variety of substrates used in the process. Each formulation component individually fulfils a special function and the proportion and composition will vary according to the substrate. Flexographic inks are organic solvent-based, water-based or radiation-curable. For environmental and health reasons the use of traditional organic solvents has gradually been replaced by water and non-volatile products.

In our plant we are now producing water based flexographic inks for application on paper, tissue and paper board for packaging, and we are planning to produce also water based ink for the increasing market of not absorbent substrated such as plastics and aluminium.

# OFFSET LINE PRODUCTS OVERVIEW

## UV INKS

1. Paper, Film
2. Dry Offset

## UV COATINGS

1. UV OPV Standard
2. UV OPV Low Odor
3. UV OPV Flexible
4. UV OPV High Slip
5. UV OPV High Adhesion
6. UV OPV Benzophenone Free
7. UV OPV Hot Stamping
8. UV OPV Anti Penetration

## WATER BASED VARNISHES

1. Gloss
2. Protection Varnish
3. Matte
4. Primer

## WATER BASED ADHESIVES SHEET LABELSTOCKS



# OFFSET LINE PRODUCTS OVERVIEW

## UV OFFSET PROCESS COLORS

Code	Product
→ 100427	UV OFFSET PROCESS YELLOW 22155-ITX FREE
→ 100428	UV OFFSET PROCESS MAGENTA 22355-ITX FREE
→ 100429	UV OFFSET PROCESS CYAN 22005-ITX FREE
→ 100430	UV OFFSET PROCESS BLACK 22305-ITX FREE
→ 100730	UV OFFSET OPAQUE WHITE 22200

## UV OFFSET EXTRA PROCESS COLORS

→ 101534	UV OFFSET EXTRA YELLOW 22160-ITX FREE
→ 101623	UV OFFSET EXTRA MAGENTA 22366-ITX FREE
→ 101624	UV OFFSET EXTRA CYAN 22013-ITX FREE
→ 101613	UV OFFSET DENSE BLACK 22309-ITX FREE
→ 101626	UV OFFSET EXTRA OPAQUE WHITE 22202

## UV DRY OFFSET COLORS

Code	Product
→ 100374	DRY O/S UV CUP CYAN LM 22550
→ 100208	DRY O/S UV CUP ORANGE 22451
→ 100226	DRY O/S UV CUP RED O32 22501
→ 100704	DRY O/S UV CUP VIOLET LF 22554
→ 100205	DRY O/S UV CUP O72 BLUE 22553
→ 100194	DRY O/S UV CUP REFLEX BLUE 22552
→ 100195	DRY O/S UV CUP GREEN 22530
→ 100213	DRY O/S UV CUP TRANSPARENT WHITE 22400
→ 100211	DRY O/S UV CUP OPAQUE WHITE 22401
→ 100200	DRY O/S UV CUP YELLOW 22450
→ 100206	DRY O/S UV CUP MAGENTA 22500
→ 100375	DRY O/S UV CUP CYAN 22551
→ 100196	DRY O/S UV CUP BLACK 22600





# OFFSET LINE PRODUCTS UV CURABLE COATINGS

## UV OVER PRINT VARNISH STANDARD

Code	Product	TECHNICAL SPECIFICATIONS					Benzophenone Free	Slip	Flexible	Odor	Adhesion	Double Sided Application	Anti Penetration
		Application	Gloss	Matte	Inline	Offline							
→ 11102	UV COATINGS GLOSS INK TRAIN 11102-DO	Offset	☑	☒	☒	☑	☒	●●	●	☑	●●	●●	☒
→ 11106	UV COATINGS OFFSET GLOSS 11106-INL	Offset	☑	☒	☑	☑	☒	●●	●	☑	●●	●●	☒
→ 11118	UV COATINGS GLOSS INK TRAIN 11102-HV/DO	Offset	☑	☒	☒	☑	☒	●●	●	☑	●●	●●	☒
→ 11128	UV COATINGS GLOSS WATER DAMP 11128	Offset	☑	☒	☒	☑	☒	●●	●	☑	●●	●●	☒
→ 11135	UV COATINGS OFFSET GLOSS 11150-LV/FS/RC	Offset	☑	☒	☑	☒	☒	●●	●●●	☑	●●●	●●	☒
→ 11226	UV COATINGS OFFSET INK TRAIN 11226-DO	Offset	☑	☒	☒	☑	☒	●●	●	☑	●●	●●	☒
→ 11301	UV COATINGS MATT INK TRAIN 11102-MA/DO	Offset	☑	☒	☒	☑	☒	●●	●	☑	●●	●●	☒
→ 100075	UV COATINGS OFFSET GLOSS 11106-INL/LV	Offset	☒	☑	☒	☑	☒	●●	●	☑	●●	●●	☒
→ 102004	UV COAT. OFFSET GLOSS 11126 INL/BF/LO/FS	Offset	☑	☒	☑	☒	☒	●●	●	☑	●●	●●	☒
→ 101692	UV COATINGS OFFSET GLOSS 11122-INL/BF/LO	Offset	☑	☒	☒	☒	☑	●●	●	☒	●●	●●	☒
→ 101710	UV COATINGS OFFSET GLOSS 11128-BF/FS/LO	Offset	☑	☒	☒	☒	☑	●●	●	☒	●●	●●	☒
→ 101861	UV COATINGS MATT INK TRAIN 11311/WO	Offset	☒	☑	☒	☒	☒	●●	●	☑	●●	●●	☒
→ 101862	UV COATINGS GLOSS INK TRAIN 11117/WO	Offset	☑	☒	☒	☒	☒	●●	●	☑	●●	●●	☒

Legend ●●● Good ●● Average ● Poor

\*Benzophenone-Free versions of all UV products available on request

# OFFSET LINE PRODUCTS UV CURABLE COATINGS

## UV OVER PRINT VARNISH FLEXIBLE

Code	Product	TECHNICAL SPECIFICATIONS							Benzophenone Free	Slip	Flexible	Odor	Adhesion	Double Sided Application	Anti Penetration
		Application	Gloss	Matte	Inline	Offline									
→ 11110	UV COATINGS OFFSET GLOSS 11150-INL/LV	Offset	✓	✗	✓	✗	✗	✗	●●●	●●●	✓	●●●	●●	✗	
→ 11137	UV COATINGS GLOSS WATER DAMP. 11150-MV/FL	Offset	✓	✗	✗	✓	✗	✗	●●●	●●●	✓	●●●	●●	✗	
→ 11139	UV COAT. GLOSS INK TRAIN 11150-HV/FL/DO	Offset	✓	✗	✗	✓	✗	✗	●●●	●●●	✓	●●●	●●	✗	
→ 11150	UV COATINGS OFFSET GLOSS 11150-INL	Offset	✓	✗	✓	✓	✗	✗	●●●	●●●	✓	●●●	●●	✗	
→ 11698	UV COATINGS OFFSET GLOSS 11150-INL/BF/LV	Offset	✓	✗	✓	✗	✓	✓	●●●	●●●	✗	●●●	●●	✗	
→ 32530	UV COATINGS OFFSET PRIMER 32530	Offset	✓	✗	✓	✗	✓	✓	●●●	●●●	✗	●●●	●●	✗	

## UV OVER PRINT VARNISH HIGH SLIP

→ 11172	UV COATINGS OFFSET GLOSS 11106-INL/FS	Offset	✓	✗	✓	✗	✗	✗	●●●	●	✓	●●	●●●	✗
→ 11220	UV COATINGS OFFSET GLOSS 11150-INL/FS/HS	Offset	✓	✗	✓	✗	✗	✗	●●●	●●	✓	●●●	●●●	✗
→ 11672	UV COATINGS OFFSET GLOSS 11106-INL/BF/FS	Offset	✓	✗	✓	✗	✓	✓	●●●	●	✗	●●	●●●	✗
→ 100135	UV COATINGS OFFSET GLOSS 11135-MV/FS/HS	Offset	✓	✗	✓	✗	✗	✗	●●●	●●	✓	●●●	●●●	✗
→ 100511	UV COATINGS OFFSET MATT 11302-INL/BF/INP	Offset	✗	✓	✓	✗	✓	✓	●●	●●	✗	●●●	●●	✗
→ 101076	UV COATINGS OFFSET GLOSS 11150-INL/FS/HS-MOD	Offset	✓	✗	✓	✗	✗	✗	●●●	●●	✓	●●●	●●●	✗
→ 101836	UV COATINGS OFFSET GLOSS 11125-INL/BF/LO/HS	Offset	✓	✗	✓	✗	✓	✓	●●●	●●	✓	●●●	●●●	✗

Legend ●●● Good ●● Average ● Poor

\*Benzophenone-Free versions of all UV products available on request

# OFFSET LINE PRODUCTS UV CURABLE COATINGS

## UV OVER PRINT VARNISH HIGH ADHESION

Code	Product	TECHNICAL SPECIFICATIONS					Benzophenone Free	Slip	Flexible	Odor	Adhesion	Double Sided Application	Anti Penetration
		Application	Gloss	Matte	Inline	Offline							
→ 11401	UV COATINGS OFFSET GLOSS PVC 11401	Offset	☑	☒	☑	☒	☒	●●	☑	●●●	●●	☒	
→ 11601	UV COATINGS OFFSET PVC 11401-MA	Offset	☒	☑	☑	☒	☒	●●●	☑	●●●	●●	☒	
→ 100550	UV COATINGS OFFSET GLOSS 11107-HA/AP/BF	Offset	☑	☒	☑	☒	☑	●●●	☒	●●●	●●●	☑	

## UV OVER PRINT VARNISH BENZOPHENONE-FREE

→ 11628	UV COATINGS OFFSET GLOSS WATER D. 11128-BF	Offset	☑	☒	☒	☑	☑	●●	●	☒	●●	●●	☒
→ 11672	UV COATINGS OFFSET GLOSS 11106-INL/BF/FS	Offset	☑	☒	☑	☒	☑	●●●	●	☒	●●	●●●	☒
→ 11698	UV COATINGS OFFSET GLOSS 11150-INL/BF/LV	Offset	☑	☒	☑	☒	☑	●●	●●●	☒	●●	●●	☒
→ 100495	UV COATINGS OFFSET GLOSS 11630-INL/BF	Offset	☑	☒	☑	☒	☑	●●	●●	☒	●●	●●●	☒
→ 100511	UV COATINGS OFFSET MATT 11302-INL/BF	Offset	☒	☑	☑	☒	☑	●●●	●●	☒	●●●	●●●	☒
→ 100550	UV COATINGS OFFSET GLOSS 11107-HA/AP/BF	Offset	☑	☒	☑	☒	☑	●●	●●	☒	●●	●●●	☑

## UV OVER PRINT VARNISH HOT STAMPING

→ 32502	UV COATINGS OFFSET PRIMER 32502	Offset	☑	☒	☒	☑	☒	●	●	☑	●●	●	☒
→ 32530	UV COATINGS OFFSET PRIMER 32530	Offset	☑	☒	☑	☒	☒	●	●●●	☑	●●●	●	☒

Legend ●●● Good ●● Average ● Poor

\*Benzophenone-Free versions of all UV products available on request

# OFFSET LINE PRODUCTS UV CURABLE COATINGS

## UV OVER PRINT VARNISH ANTI-PENETRATION

Code	Product	TECHNICAL SPECIFICATIONS							Benzophenone Free	Slip	Flexible	Odor	Adhesion	Double Sided Application	Anti Penetration
		Application	Gloss	Matte	Inline	Offline									
→ 11221	UV COATINGS OFFSET GLOSS 11106-INL/AP	Offset	☑	☒	☑	☒	☒	☒	●●	●●	☑	●●●	●●	☑	
→ 11225	UV COATINGS OFFSET GLOSS WATER D. 11128-LO/AP	Offset	☑	☒	☒	☑	☒	☒	●●	●●	☑	●●●	●●	☑	
→ 100550	UV COATINGS OFFSET GLOSS 11107-HA/AP/BF	Offset	☑	☒	☑	☒	☑	☑	●●	●●	☒	●●●	●●●	☑	

## UV OVER PRINT VARNISH LOW ODOR

→ 101692	UV COATINGS OFFSET GLOSS 11122-INL/BF/LO	Offset	☑	☒	☑	☒	☒	☒	●●	●●	☑	●●●	●●	☑
→ 101710	UV COATINGS OFFSET GLOSS 11128-BF/FS/LO	Offset	☑	☒	☒	☑	☒	☒	●●	●●	☑	●●●	●●	☑
→ 101836	UV COAT.OFFSET GLOSS 11125-INL/BF/LO/HS	Offset	☑	☒	☑	☒	☑	☑	●●	●●	☒	●●●	●●●	☑
→ 102004	UV COAT. OFFSET GLOSS 11126 INL/BF/LO/FS	Offset	☑	☒	☑	☒	☑	☑	●●	●●	☒	●●●	●●●	☑

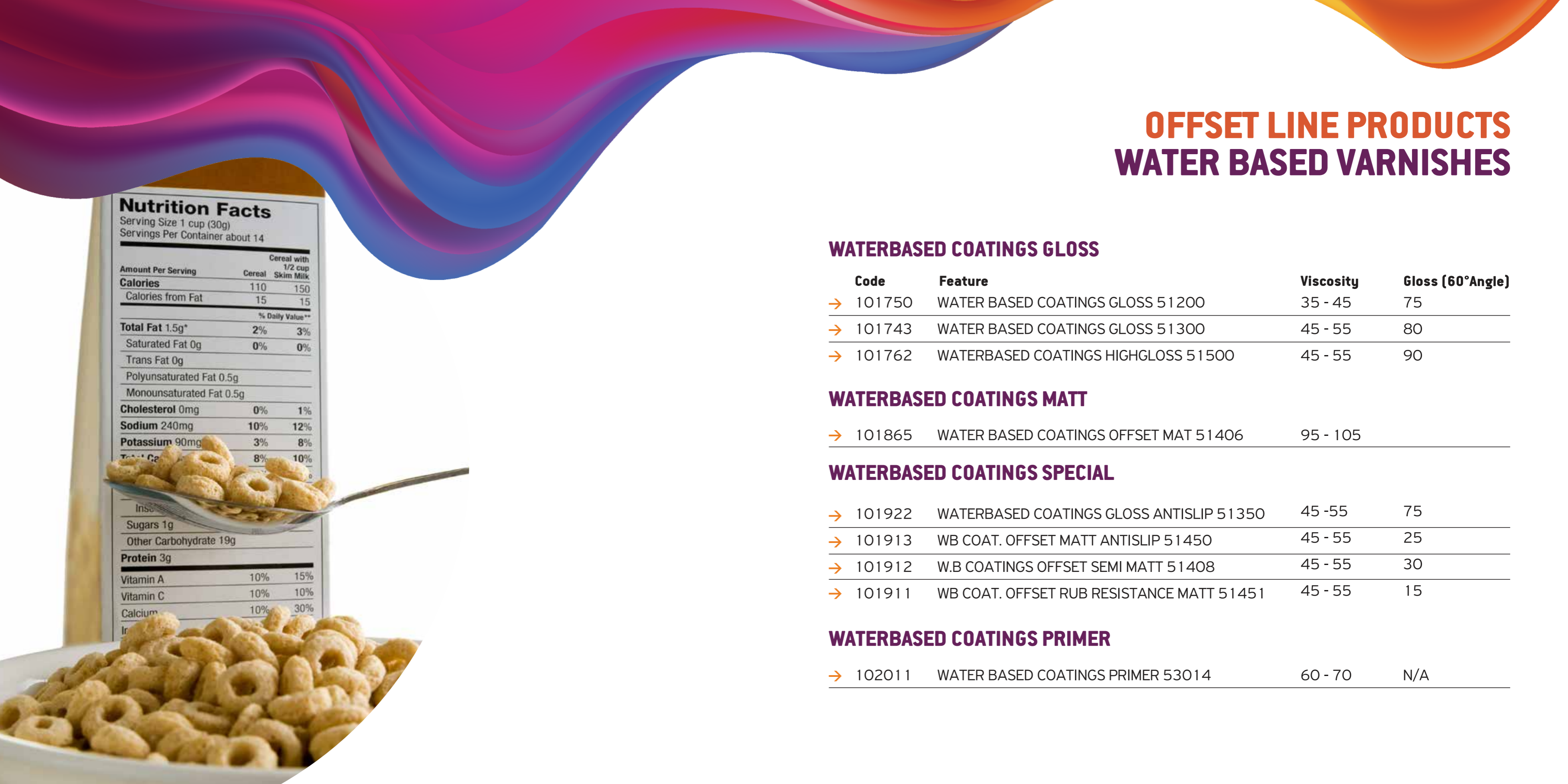
## UV OVER PRINT VARNISH, DIGITAL

→ 38001	UV COATINGS DIGITAL GLOSS 38001	Offset	☑	☒	☑	☒	☒	☒	●●●	●●●	☑	●●●	●●●	☒
→ 38002	UV COATINGS DIGITAL GLOSS 38002	Offset	☑	☒	☑	☒	☒	☒	●●●	●●●	☑	●●●	●●●	☒
→ 38601	UV COATINGS DIGITAL GLOSS 38601-BF	Offset	☑	☒	☑	☒	☑	☑	●●●	●●●	☒	●●●	●●●	☒
→ 38602	UV COATINGS DIGITAL GLOSS 38602-BF	Offset	☑	☒	☑	☒	☑	☑	●●●	●●●	☒	●●●	●●●	☒
→ 100114	UV COATINGS DIGITAL 38001-MA	Offset	☒	☑	☑	☒	☑	☑	●●●	●●●	☑	●●●	●●●	☒
→ 100655	UV COATINGS DIGITAL GLOSS 38003-INP	Offset	☑	☒	☑	☒	☒	☒	●●	●●●	☑	●●●	●	☒

Legend ●●● Good ●● Average ● Poor

\*Benzophenone-Free versions of all UV products available on request

# OFFSET LINE PRODUCTS WATER BASED VARNISHES



## WATERBASED COATINGS GLOSS

Code	Feature	Viscosity	Gloss (60°Angle)
→ 101750	WATER BASED COATINGS GLOSS 51200	35 - 45	75
→ 101743	WATER BASED COATINGS GLOSS 51300	45 - 55	80
→ 101762	WATERBASED COATINGS HIGHGLOSS 51500	45 - 55	90

## WATERBASED COATINGS MATT

→ 101865	WATER BASED COATINGS OFFSET MATT 51406	95 - 105
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## WATERBASED COATINGS SPECIAL

→ 101922	WATERBASED COATINGS GLOSS ANTISLIP 51350	45 - 55	75
→ 101913	WB COAT. OFFSET MATT ANTISLIP 51450	45 - 55	25
→ 101912	W.B COATINGS OFFSET SEMI MATT 51408	45 - 55	30
→ 101911	WB COAT. OFFSET RUB RESISTANCE MATT 51451	45 - 55	15

## WATERBASED COATINGS PRIMER

→ 102011	WATER BASED COATINGS PRIMER 53014	60 - 70	N/A
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## OFFSET LINE PRODUCTS WATER BASED ADHESIVES

### WATER BASED LAMINATION (BOPP) ADHESIVES

Code	Feature
→ F220	Manual Lamination Adhesive
→ F210	Self-Xlinking Lamination Adhesive
→ F301/B	Automatic Lamination Adhesive (VA/BA)
→ F310/P	Automatic lamination adhesive (VA/BA)
→ F3100	Automatic Lamination Adhesive (Pure Acrylic)
→ F340	VA/BA Based Adhesive for Carton Boxes
→ F4010	PVAL Based Adhesive
→ F4011	Corrugated Board Lamination



# OFFSET LINE PRODUCTS SHEET LABELSTOCKS



1. Coated Standard
2. Coated Nonperm
3. Data
4. High Gloss
5. Coated Hotmelt
6. Coated Crack-back
7. PVC Clear
8. PVC Opaque

\*All products displayed on this page can be sized at 50x70 or 70x100cm with white kraft liner







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