



Cosm^olight[®]

Water Wash Flexo Plates



*New and improved formulas!
Environmentally friendly.
User friendly.*



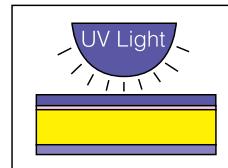
ENVIRONMENTALLY FRIENDLY FLEXO PLATE PROCESSING

Leave it to Anderson & Vreeland to introduce the world's first water-wash flexo plate. Developed by TOYOBO, world leader in photopolymer chemistry, Cosmolight® delivers superior performance using water-based ink, as well as solvent based and UV-inks. This revolutionary plate washes out in plain tap water with a mild, neutral detergent; eliminating the use of toxic, environmentally damaging washout solvents.

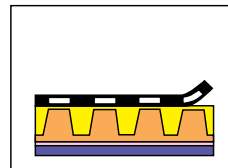
Advantages

1. Washes out in tap water with a small amount of mild detergent.
2. Eliminates the use of dangerous hydrocarbon and hazardous washout solvents.
3. Plates are "press-ready" in an hour and "press down-time" is dramatically reduced.
4. Print quality is excellent with both water-based and alcohol-based ink.
5. High resolution and reproductivity provide sharp details.
6. Excellent ozone resistance.
7. Excellent ink transfer.
8. Excellent resistance to co-solvent ink. (type NS)
9. Thickness tolerance allows for "kiss" impression settings.
10. "A closed washout system" allows for repeated use of the washout solution.
11. Anti-static treatment enables dust-free handling.

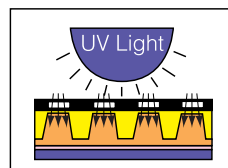
Plate processing in less than one hour.



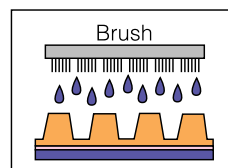
Back Exposure
Expose UV light through substrate film on back of COSMOLIGHT®.



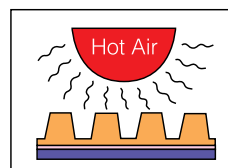
Contact of Negative
First peel protective cover film. Contact emulsion side of negative on to COSMOLIGHT's surface.



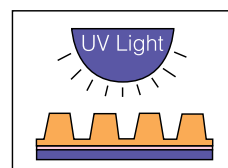
Surface Exposure
Film and plate surface are exposed to UV light.



Wash-out
Remove the negative, and process the plate in a COSMOLIGHT® washout unit.



Drying
After wiping off the surface moisture, dry in hot air dryer.



Post-Exposure
Expose UV light again to complete photo-curing.

Structure

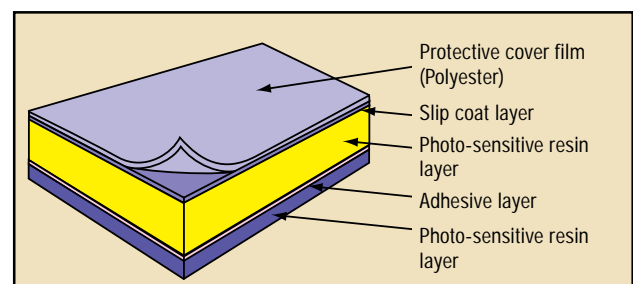


PLATE TYPE	COSMOLIGHT NS	COSMOLIGHT NEL	COSMOLIGHT NEO
Main Application	Flexible Packaging Paper/Plastic Bags Plastic Sacks Beverage Containers Aluminum Foil	Tag & Label Pre-print Liners Envelopes Napkins Tissues	Tag & Label Napkins Envelopes Tissues Paper Bags Pre-print Liners Beverage Containers
Key Advantages	<ul style="list-style-type: none"> • Lowest dot-gain and clearer reverse printing • Highest resolution and reproduction capability • Outstanding ink transfer • Easy inspection • Easy mounting • Press-plate ready within one hour • Higher Co-solvent ink resistance 	<ul style="list-style-type: none"> • Lowest dot-gain and clear reverse printing • Highest resolution and reproduction capability • Higher ink transfer • Wider latitude of exposure time • Easy inspection • Easy mounting • Press-plate ready within one hour 	<ul style="list-style-type: none"> • Excellent ink transfer • Less dot gain and sharper screen image • Higher durability • Wider latitude of exposure time • Easy inspection • Easy mounting • High ozone resistance
Plate color	Blue	Blue	Blue
Durometer Shore A hardness	60° - 65°	40 ⁰ - 50 ⁰	55 ⁰ - 60 ⁰
Carrier material	Polyester film 0.125mm (0.005")	Polyester film 0.125mm (0.005")	Polyester film 0.125mm (0.005")
Plate thickness	1.14/1.70/2.30/2.54/2.72/2.84	1.14/1.70/2.54/2.72/2.84	1.14/1.70/2.54/2.72/2.84
Plate Size ²⁾	457 X 610mm (18"X24") 457 X 762mm (18"X30") 610 X 762mm (24"X30") 762 X 1016mm (30"X40") 1067 X 1524mm (42"X60")	457x610mm (18"x24") 457x762mm (18"x30") 610x762mm (24"x30") 762x1016mm (30"x40") 1067x1524mm (42"x60")	457x610mm (18"x24") 457x762mm (18"x30") 610x762mm (24"x30") 762x1016mm (30"x40") 1067x1524mm (42"x60")
Image reproduction			
Screen image	175 LPI/1 - 95%	175 LPI/1 - 95%	150 - 175LP1/2 - 95%
Fine line	0.03mm (0.001")	0.03mm (0.001")	0.05mm (0.002")
Isolated dots	0.10mm (0.004")	0.10mm (0.004")	0.15mm (0.006")
Processing Time	1.70mm (0.067") 2.84mm (0.112")	1.70mm (0.067") 2.84mm (0.112")	1.70mm (0.067") 2.84mm (0.112")
Back Exposure ³⁾	45" - 60"	5' - 6' 30"	32" - 45"
Main Exposure ³⁾	4' - 6'	4' - 6'	4' - 9'
Washout ⁴⁾	10' - 15'	10' - 15'	7' - 20'
Drying	10'	10'	20'
Post Exposure	3' - 10'	3' - 10'	5' - 20'
Light Finishing ⁵⁾	0' - 10'	0' - 10'	0' - 10'
Washout Solution	Water containing small portion of detergent	Water containing small portion of detergent	Water containing small portion of detergent
Thickness Tolerances after Processing	0.020mm (0.0008")	0.020mm (0.0008")	0.020mm (0.0008")
Resistance to ink			
Water based ink	OK	OK	OK
Alcohol ink	OK	OK	OK
Co-solvent ink	OK	NO	NO
UV ink	OK	OK	OK
Oil based ink	NO	NO	NO

*1) Other sizes and gauges are available with a minimum order and/or upon request at an additional cost.

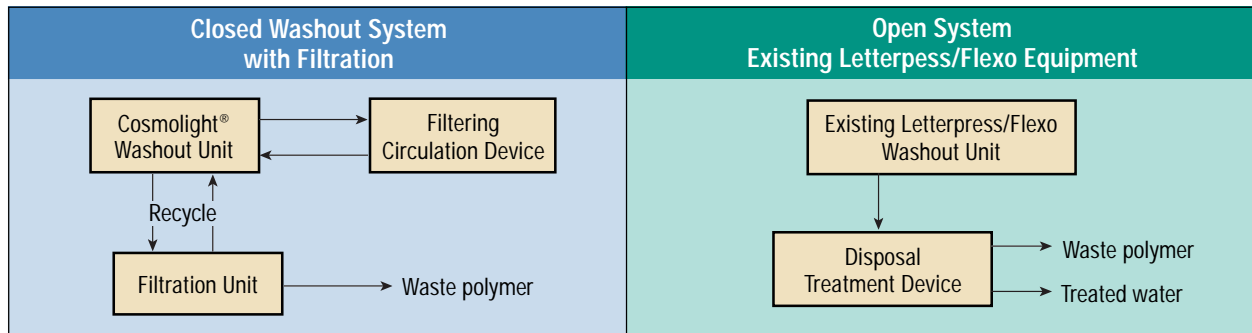
*2) Exposure time depends on age and type of lamp, and image characteristics. Adjusted accordingly for optimum plate quality. (Relief depth 0.7-0.9mm, UV-lamp Philips TLK40W/10R).

*3) Wash-out time depends on relief depth required for each application. Water temperature 40°C (104° F).

*4) Light-finishing time depends on each application and the equipment.

Cosmolight® Washout System

We offer two different options to process Cosmolight® plates: "Closed Washout System with Filtration" and "Open system", which makes use of existing Letterpress/Flexo Equipment.



* If using letterpress equipment, it is necessary to remodel it for flexo plate processing.

System Advantages:

1. Healthy and environmentally friendly processing in odorless room.
2. No solvent cost and disposal concern.
3. This system is cost-effective, convenient and operator-friendly.
4. Installation is simple with no exhaust or distillation required.

Water Wash Flexo Plate Processors

Anderson & Vreeland is the exclusive manufacturer of Cosmolight water-wash flexo plate processors. These ecologically-friendly systems eliminate using hazardous plate processing chemicals and disposal of environmentally damaging materials. Choose from multi-function orbital systems for smaller plates from 12" x 18" and 18" x 24", or larger in-line systems that process plates up to 30" x 44" and 42" x 60".



*Stack-Type
Water-Wash
Flexo Plate Processor.
Ideal for crowded working areas.*



*42" x 60"
In-Line System for automatic
processing of large flexo plates*

Sales & Service

United States

Fairfield, NJ
Bryan, OH
Arlington Hts., IL
Atlanta, GA
Irving, TX
Fresno, CA
Kent, WA
Santa Fe Springs, CA

Mexico

Anderson & Vreeland de Mexico S.A. de C.V.
Avenida Ceylon Nbr. 959
Col. Industrial Vallejo
Mexico, D.F. C.P. 02300
Phone: 525-567-1449/1503
Fax: 525-567-1408
E-mail: avmexico@mail.internet.com.mx

South America

Anderson & Vreeland Americas, Inc.
P.O. Box 527
Bryan, OH 43506
Phone: 419/636-5002
Fax: 419/636-4334
E-mail: info@AVbryan.com



Toll-Free: 866.282.7696 • Toll-Free Fax: 800.223.6869
www.AndersonVreeland.com • E-mail: info@AndVre.com