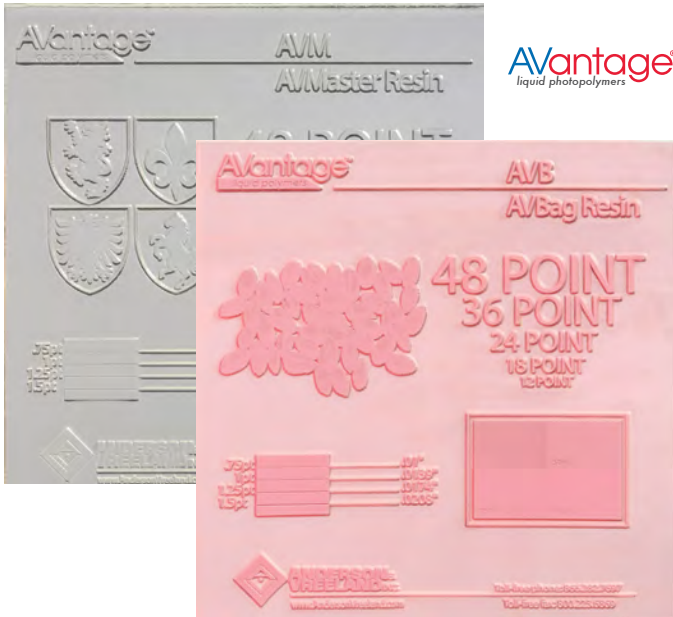


AVANTAGE LIQUID POLYMERS



# AVantage Liquid Polymers

AVantage® Liquid Photopolymers meet the stringent demands of flexographic printing.



Our liquid photopolymer resins are formulated to deliver optimum elasticity, resilience, hardness and ink transfer.

## AVBAG

Ideal for the multi-wall bag industry. Provides excellent print results on both paper and poly bags.

## AVCAP

Designed for use with softer-base AVantage® liquid photopolymers to produce capped printing plates that dramatically improve print quality and performance.

## AVCORRUGATED

Specifically formulated for corrugated applications and is a highly resilient, durable plate that provides excellent ink transfer.

## AVMASTER

Excellent results where hardness and clear definition of character is required. AVMaster (AVM) liquid photopolymer is specifically formulated for molding applications, and is a highly resistant, durable plate that provides excellent imaging characteristics.

## AVSTAMP

The perfect solution for stamps where consistent and crisp ink transfer is needed. The clarity and overall UV stability with this resin is unmatched in the industry today.

## AVSTAR INKJET FILM

Designed to produce high-quality, high-density film negatives and positives.

## ANCILLARY ITEMS

Complete line of ancillary items to compliment the complete line of AVantage® Liquid Photopolymer.

# AVantage Liquid Polymers

## AVBAG

**Enhanced print quality and imaging for multi-wall and poly bag printers.**

AVBag (AVB) is specifically formulated for multi-wall bag and poly bag applications and is a highly resistant, durable plate that provides excellent ink transfer. AVB is a 55 Shore A durometer plate with a wide imaging latitude and delivers exceptional results from the most demanding artwork.

AVB is compatible with most water-based and glycol-based inks.

### APPLICATIONS

Multi-Wall/Poly Bag

### BENEFITS

- Excellent press printability / plate run durability.
- Low tack plate throughout, clean running on press
- UV, heat, and humidity stable.
- Highly resilient plate with excellent ink transfer.
- Wide exposure latitude, deep reverses.
- Optional GPX finishing.
- Press ready plate in less than one (1) hour and requires significantly less time than sheet plates.
- Material costs are much less than sheet plates and more than competitive with other liquid products.
- Easy mounting on printing presses and easy to handle/store.
- Good dimensional stability, polyester backed – very tack free plate.
- Wide imaging latitude – delivers exceptional results from the most demanding artwork.
- Environmentally friendly; a truly sustainable product for our time.

### STORAGE

Proper storage will extend plate life. Plates should be cleaned thoroughly after each press run and stored away from light in a cool, dry place with a relative humidity of approximately 60%.

### INK / SOLVENT COMPATIBILITY

AVB is compatible with most water-based and glycol-based inks.



### SPECIFICATIONS

#### Reproduction capabilities:

Image halftones: 3 to 95% at 120 lines/in.  
Isolated dots: .005 in. diameter  
Fine lines: .003 in. width

#### Processing data:

AVB is designed for use with all competitive detergent, defoamer, and developer. AV washout chemistry is also available.

#### Recommended times:

Back exposure 30 to 120 seconds  
Main exposure 3 to 7.5 minutes  
Washout 5 to 10 minutes  
Post exposure 10 minutes  
Drying, less than 30 minutes

#### Appearance:

Red color

#### Thickness:

Gauge: 0.067 – 0.125 in.  
Floor thickness: 0.035 – 0.080 in.  
Relief depth: 0.032 – 0.045 in.

#### Hardness:

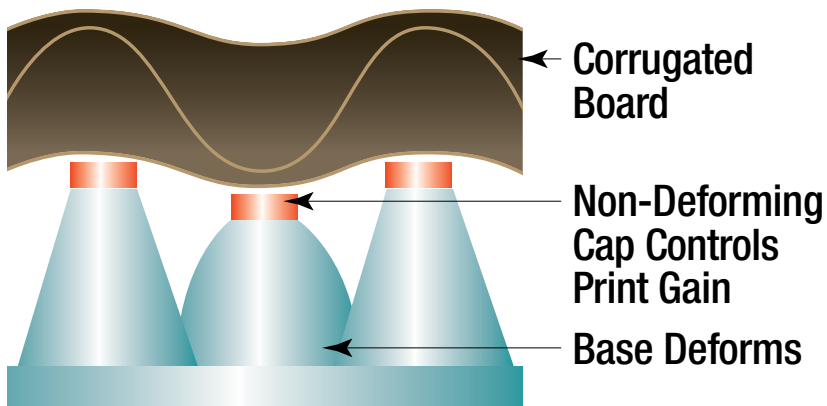
AVB is available in 55 Shore A durometer.

#### Product availability:

AVB is available in 40 lb. pails, or 55 gal. drums net weight. This product can also be shipped in 2,200 lb. totes.

*Contact A&V for other packing needs.*

# AVantage Liquid Polymers



## AVCAP

**Liquid capping resin dramatically improves print quality and performance.**

AVantage® Capping Resin (AVCAP) is designed for use with softer-base AVantage® liquid photopolymers to produce capped printing plates that dramatically improve print quality and performance.

AVCAP is formulated for multi-wall, folding carton, corrugated applications and wide web applications. The addition of AVCAP during the plate-making process creates liquid photopolymer plates that can image the finest details while maintaining clean, open reverses.

The 60 durometer (Shore A) AVCAP resin broadens overall tone range capability, improves ink transfer, reduces dot gain, and provides excellent coverage of solids while minimizing fluting.

## APPLICATIONS

Multi-Wall Bag  
Folding Carton  
Corrugated

## BENEFITS

- Dramatically improves print quality.
- Extended plate life with regards to impression count.
- Significant reduction in fluting.
- Wider exposure latitude, deep reverses.
- Improved tonal range: 2-95% at 133 lpi.
- Allows the flexibility to produce both solids and halftones within the same plate.

## SPECIFICATIONS

### Hardness:

60 Shore A durometer

### Appearance:

Red color

### Cap thickness:

0.005 – 0.010

### Tone range reproduction:

2 – 95%

### Line screen:

133 lpi, max

## PRODUCT AVAILABILITY

AVCAP is available in 20 or 40 lb. delts.

*Contact A&V for other packing needs.*

# AVantage Liquid Polymers

## AVCORRUGATED

### The perfect solution for corrugated printing.

AVCorrugated (AVC) is specifically formulated for corrugated applications and is a highly resilient, durable plate that provides excellent ink transfer. AVC is a 25 or 34 Shore A durometer plate with a wide imaging latitude and delivers exceptional results from the most demanding artwork.

AVC is compatible with most water-based and glycol-based inks.

### APPLICATIONS

Corrugated

#### 2 Products:

NTR is a germicidal light finished plate.

MLR is an enhanced post expose finished plate.

### BENEFITS

- Excellent press printability / plate run durability.
- Low tack plate throughout, clean running on press.
- UV, heat, and humidity stable.
- Highly resilient plate with excellent ink transfer.
- Wide exposure latitude, deep reverses.
- Press ready plate in less than one (1) hr – no Germicidal – requires significantly less time than sheet plates.
- Material costs are much less than sheet plates and more than competitive with other liquid products.
- Easy mounting on printing presses. “I PLATES” or Modified IPLATES are easy to handle / store.
- Good dimensional stability, polyester backed – very tack free plate.
- Wide imaging latitude – delivers exceptional results from the most demanding artwork.
- Environmentally friendly. A truly Sustainable product for our time.
- AVC is available in two options to specifically meet your production needs. A non-germicidal option that includes a detacking solution and an option that detacks in under germicidal lamp

### STORAGE

Plates can be stored in a cool and dry place with a relative humidity of approximately 60%, or in the conventional manner used by most corrugaters.

### INK / SOLVENT COMPATIBILITY

AVC is compatible with most water-based and glycol-based inks.



### SPECIFICATIONS

#### Reproduction capabilities:

Image halftones: 3 to 95% at 65 lines/in.

Isolated dots: 0.006 in. diameter

Fine lines: 0.004 in. width

#### Processing data:

AVC is designed for use with all competitive detergent, defoamer and developer. AV washout chemistry is also available.

#### Recommended times:

Back exposure 90 to 180 seconds

Main exposure 5 to 7.5 minutes

Washout 10 to 15 minutes

Post exposure 10 to 15 minutes

Drying, less than 30 minutes

#### Appearance:

Red or Clear color

#### Thickness:

0.125 – 0.250 in.

Floor thickness: 0.080 – 0.125 in.

Relief depth: 0.045 – 0.125 in.

#### Hardness:

AVC is available in 25 or 34 Shore A durometer.

#### Product availability:

AVC is available in 40 lb. pails, or 55 gal. drums net weight. This product can also be shipped in 2,200 lb. totes.

Contact A&V for other packing needs.



# AVantage Liquid Polymers

## AVMASTER

**The molding industry's premier master material.**

AVMaster (AVM) is specifically formulated for molding applications and is a highly resistant, durable plate that provides excellent imaging characteristics. AVM is a 80/90 Shore A durometer plate with a wide imaging latitude and delivers exceptional results from the most demanding artwork.

### APPLICATIONS

Master/Molding

### BENEFITS

- Exceptional imaging quality where fine detail is required.
- Low tack plate throughout.
- UV, heat, and humidity stable.
- Wide exposure latitude, deep reverses.
- Material costs are much less than sheet plates and more than competitive with other liquid products.
- Good dimensional stability, polyester backed – very tack free plate.
- Wide imaging latitude – delivers exceptional results from the most demanding artwork.
- Environmentally friendly; a truly sustainable product for our time.
- Excellent durability.

### STORAGE

Proper storage will extend plate life. Plates should be cleaned thoroughly after use and stored away from light in a cool, dry place with a relative humidity of approximately 60%.



### SPECIFICATIONS

#### Reproduction capabilities:

Image halftones: 2 to 95% at 85 lines/in.  
Isolated dots: .015 in. diameter  
Fine lines: .010 in. width

#### Processing data:

AVM is designed for use with all competitive detergent, defoamer, and developer. AV washout chemistry is also available.

#### Recommended times:

Back exposure 30 to 120 seconds  
Main exposure 3 to 7.5 minutes  
Washout 5 to 10 minutes  
Post exposure 10 minutes  
Drying, less than 30 minutes

#### Appearance:

Clear to Bronze color

#### Thickness:

Gauge: 0.067 – 0.125 in.  
Floor thickness: 0.035 – 0.080 in.  
Relief depth: 0.032 – 0.095 in.

#### Hardness:

AVM is available in 80/90 Shore A durometer.

#### Product availability:

AVM is available in 40 lb. pails, or 55 gal. drums net weight. This product can also be shipped in 2,200 lb. totes.

*Contact A&V for other packing needs.*

# AVantage Liquid Polymers

## AVSTAMP

**The stamp industry's solution... when yellowing resistance and clarity are essential.**

AVStamp (AVS) is specifically formulated for the stamp industry and combines yellowing resistance with UV stability for impressive flexibility and durability. AVS is a 50 Shore A durometer plate designed for the craft, hobby, and scrapbook markets.

AVS is compatible with most water-based and glycol-based inks.

### APPLICATIONS

Stamp

### BENEFITS

- High flexibility.
- Medium tack.
- UV, heat, and humidity stable.
- Highly resilient plate with excellent ink transfer.
- Non-yellowing.
- Exceptional clarity.
- Good dimensional stability, polyester backed.
- Wide imaging latitude – delivers exceptional results from the most demanding artwork.
- Environmentally friendly; a truly sustainable product for our time.

### STORAGE

Proper storage will extend plate life. Plates should be cleaned thoroughly after use and stored away from light in a cool, dry place with a relative humidity of approximately 60%.

### INK / SOLVENT COMPATIBILITY

AVS is compatible with most water-based and glycol-based inks.



### SPECIFICATIONS

#### Reproduction capabilities:

Image halftones: 5 to 90% at 100 lines/in.  
Isolated dots: .010 in diameter  
Fine lines: .007 in width

#### Processing data:

AVS is designed for use with all competitive detergent, defoamer, and developer. AV washout chemistry is also available.

#### Recommended times:

Back exposure 30 to 90 seconds  
Main exposure 3 to 6 minutes  
Washout 5 to 10 minutes  
Post exposure 10 minutes  
Drying, less than 30 minutes

#### Appearance:

Clear color

#### Thickness:

Gauge: .107 in.  
Floor thickness: .062 in.  
Relief depth: .045 in.

#### Hardness:

AVS is available in 50 Shore A durometer.

#### Product availability:

AVS is available in 40 lb. pails, or 55 gal. drums net weight. This product can also be shipped in 2,200 lb. totes.

*Contact A&V for other packing needs.*

# AVantage Liquid Polymers



## AVSTAR INKJET FILM

**Designed to produce high-quality, high-density film negatives and positives.**

avSTAR gloss and avSTAR2 matte ink jet film is universally receptive to both dye and pigment ink. Durable and cost-effective, avSTAR ink jet films are designed for maximum performance and are the ideal substrate for your printing requirements. avSTAR ink jet film delivers:

- Consistent, repeatable and high-resolution output with sharper dots for superior halftone reproduction and solids with greater density.
- Environmentally Friendly – avSTAR ink jet films eliminate the use of harmful chemicals including developers and fixing solutions. They are good for your employees and the environment.

avSTAR2 matte ink jet films are offered in 24” and 44” widths in 100’ rolls (5 or 8 mil) to meet all liquid and sheet photopolymer needs.





# AVantage Liquid Polymers

## AVCOV

### Matte & Clear Cover Film

AVantage matte & clear cover film is easy to handle and easy to work with during photopolymer platemaking. The matte finish of this film creates a unique, microscopic finish to the printing plate that reduces tack and improves ink transfer.



## AVWASHOUT

### Washout solution that breaks Down and Emulsifies Photopolymer Resin.

AVantage® Washout Solution is a specially formulated liquid detergent that breaks down and emulsifies AVantage® liquid photopolymer resin during the washout cycle. It has superior chemistries that ensure a clean and consistent washout each and every time.

Packaged in 5-gallon plastic containers. Drums are also available.



# AVantage Liquid Polymers

## AVSUB

**Plate substrates with a polyester backing sheet that offers excellent adhesion.**

AVantage® 4 and 7 mil plate substrates are a polyester-based backing sheet and offer excellent adhesion to AVantage® liquid photopolymers for conventional and in-position plates for flexographic printing.

Substrate sizes available to fit all popular photopolymer equipment.

Available in boxes of 100 or in rolls of 1700 ft

Custom sizes and volumes available on request.



## AVSALT

**Post exposure salt that facilitates detacking photopolymer plates.**

AVantage® Post Exposure Salt facilitates the detacking of AVantage® liquid photopolymer printing plates. AVSALT is mixed with warm water in the post exposure solution tray. The photopolymer plate is then submerged in the post exposure solution and exposed to ultraviolet light to complete the detacking process.

Packaged in 5 lb. plastic containers.



# AVantage Liquid Polymers

## AVDEV

**Liquid developer maintains consistent developer formulation.**

AVantage® Liquid Developer serves as a dispersant to ensure a consistent formulation of the developer bath (comprised of AVWashout Solution and AVDefoamer) required to process liquid photopolymer printing plates.

Packaged in 5-gallon plastic containers. Drums are also available.



## AVDEFOAM

**Defoamer minimizes foam to improve spray pressure and washout effectiveness.**

AVantage® Defoamer is a silicone emulsion defoamer that minimizes foam in developer baths that use AVantage® Washout Solution or similar detergent. Reducing foam in the developer bath improves the spray pressure required to effectively wash out resin from AVantage® liquid photopolymer printing plates after the exposure process.

Packaged in 5-gallon plastic containers. Drums are also available.



