



AVantage[®]
liquid photopolymers

Liquid Resin Portfolio



LIQUID RESIN

AVSTAR

ANCILLARY

CONSUMABLES



AVBag (AVB)

AVantage® AVBag offers outstanding printing results on both paper and poly bags. It features a highly durable, polyester-backed plate that ensures excellent ink transfer. With its wide imaging latitude, AVBag produces exceptional outcomes, even with demanding artwork.

APPLICATIONS

- Multi-wall / Poly Bag Industry

FEATURES & BENEFITS

- Low tack plate throughout, clean running on press and easy to handle / mount
- UV, heat, and humidity stable
- Wide exposure latitude, deep reverses
- Optional GPX finishing
- Press ready plate in less than one (1) hour
- Good dimensional stability
- Environmentally friendly

SPECIFICATIONS

- **Thickness**
 - Gauge: .67" - .125"
 - Floor: .035" - .080"
 - Relief depth: .032" - .045"
- **Appearance:** Red
- **Hardness:** 60 Shore A Durometer
- **Storage:** Away from light in a cool, dry place with a relative humidity of ~ 60%

REPRODUCTION

- Image halftones: 3 - 95% at 120 LPI
- Isolated dots: .005" diameter
- Fine lines: .003" width

PROCESSING

- Designed to process with AVantage defoamer, detergent, developer & washout solutions.
- Time Recommendations:
 - Back exposure: 30 - 120 seconds
 - Main exposure: 3 - 7.5 minutes
 - Washout: 5 - 10 minutes
 - Post exposure: 10 minutes
 - Drying: Less than 30 minutes

PACKAGING

- 40 lb. delt, net weight





AVCap

AVantage® Capping Resin is designed for use with AVantage® liquid photopolymers to produce capped printing plates that dramatically improve print quality and performance. Adding AVCap creates liquid photopolymer plates that can image the finest details while maintaining clean, open reverses.

◆ APPLICATIONS

- Multi-wall, folding carton, corrugated & wide-web applications

◆ FEATURES & BENEFITS

- Provides non distorting print surface
- Extends plate life with regards to impression count
- Minimized dot gain
- Improved reverse and text crispness during print
- Improved tonal range
- Can greatly reduce / eliminate fluting in corrugated applications

◆ Ink / Solvent Compatibility

- Compatible with most water-based and glycol-based inks

◆ SPECIFICATIONS

- Appearance: Red
- Hardness: 70 Shore A durometer
- Storage: Away from light in a cool, dry place with a relative humidity of approx. 60%

◆ REPRODUCTION

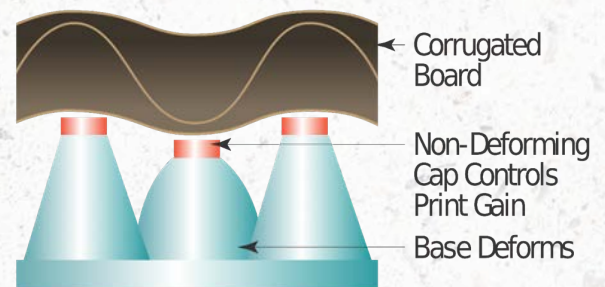
- Tone Range: 2 - 95%
- Line Screen: 133 LPI, max.

◆ PROCESSING

Designed to processing with AVantage® defoamer, detergent, developer & washout solutions.

◆ PACKAGING

- 40 lb. delt





AVCorrugated (AVCorr NTR)

NTR is finished with UVC / germicidal detack, and is a highly resilient, durable polyester-backed plate. AVC NTR provides excellent ink transfer, press printability and delivers exceptional results from demanding artwork due to its wide imaging latitude.

◆ APPLICATIONS

- Corrugated Printing / Shipper Box Graphics

◆ FEATURES & BENEFITS

- Finished with UVC / germicidal detack
- Low tack plate throughout, clean running on press
- UV, heat, and humidity stable
- Wide exposure latitude, deep reverses
- Easy mounting: "I PLATES" or Modified IPLATES are easy to handle /store
- Good dimensional stability
- Environmentally friendly

◆ SPECIFICATIONS

- **Thickness**
 - Gauge: .125" - .250"
 - Floor: .080" - .125"
 - Relief depth: .045" - .125"
- **Appearance:** Red
- **Hardness:** 35 Shore A Durometer
- **Storage:** Away from light in a cool, dry place with a relative humidity of ~ 60%

◆ REPRODUCTION

- **Image halftones:** 3 - 95% at 85 LPI
- **Isolated dots:** .006" diameter
- **Fine lines:** .004" width

◆ PROCESSING

- Designed to process with AVantage[®] defoamer, detergent, developer & washout solutions.
- **Time Recommendations:**
 - Back exposure: 90 - 180 seconds
 - Main exposure: 5 - 7.5 minutes
 - Washout: 10 - 15 minutes
 - Post exposure: 10 - 15 minutes
 - Drying: Less than 30 minutes

◆ PACKAGING

- 40 lb. delt, net weight
- 2,000 lb. tote





AVCorrugated (AVCorr LDR)

LDR is specifically formulated to use with AVEEnhance washout to produce a tack-free printing plate. It is a highly resilient, durable polyester-backed plate that provides excellent ink transfer, press printability and delivers exceptional results from demanding artwork.

APPLICATIONS

- Corrugated Printing / Shipper Box Graphics

FEATURES & BENEFITS

- Tack free plate throughout, clean running on press
- No UVC Required
- Non-germicidal which includes a detacking solution
- UV, heat, and humidity stable
- Wide exposure latitude, deep reverses
- Easy mounting: "I PLATES" or Modified IPLATES are easy to handle /store
- Good dimensional stability
- Environmentally friendly

SPECIFICATIONS

- **Thickness**
 - Gauge: .125" - .250"
 - Floor: .080" - .125"
 - Relief depth: .045" - .125"
- **Appearance:** Red
- **Hardness:** 32 Shore A Durometer
- **Storage:** Away from light in a cool, dry place with a relative humidity of ~ 60%

REPRODUCTION

- **Image halftones:** 3 - 95% at 65 LPI
- **Isolated dots:** .006" diameter
- **Fine lines:** .004" width

PROCESSING

- Designed to process with AVantage[®] AVEEnhance, defoamer, detergent, developer & washout solutions.
- **Time Recommendations:**
 - Back exposure: 90 - 180 seconds
 - Main exposure: 5 - 7.5 minutes
 - Washout: 10 - 15 minutes
 - Post exposure: 10 - 15 minutes
 - Drying: Less than 30 minutes

PACKAGING

- 40 lb. delt, net weight
- 2,000 lb. tote





AVMaster (AVM)

AVantage® AVMaster is specifically formulated for molding applications and is a durable polyester-backed plate that provides excellent imaging characteristics and delivers exceptional results from the most demanding artwork due to its wide imaging latitude.

◆ APPLICATIONS

- Master/Molding Applications

◆ FEATURES & BENEFITS

- Exceptional imaging quality where fine detail is required
- Low tack plate throughout, clean running on press
- UV, heat, and humidity stable
- Wide exposure latitude, deep reverses
- Good dimensional stability
- Outstanding durability
- Environmentally friendly

◆ SPECIFICATIONS

- **Thickness**
 - Gauge: .067" - .125"
 - Floor: .035" - .080"
 - Relief depth: .032" - .095"
- **Appearance:** Clear to Bronze Color
- **Hardness:** 80 Shore A Durometer
- **Storage:** Away from light in a cool, dry place with a relative humidity of ~ 60%

◆ REPRODUCTION

- **Isolated dots:** .015" diameter
- **Fine lines:** .010" width

◆ PROCESSING

- Designed to process with AVantage® defoamer, detergent, developer & washout solutions.
- **Time Recommendations:**
 - Back exposure: 30 - 120 seconds
 - Main exposure: 3 - 7.5 minutes
 - Washout: 5 - 10 minutes
 - Post exposure: 10 minutes
 - Drying: Less than 30 minutes

◆ PACKAGING

- 40 lb. delt, net weight





AVSand (AVSD)

AVantage® AVSand is a versatile, cost-effective material specifically formulated for sandcasting where resistance to swelling is essential. It is a highly durable, polyester-backed plate that provides exceptional imaging quality due to its wide imaging latitude.

◆ APPLICATIONS

- Sand Casting

◆ FEATURES & BENEFITS

- Exceptional imaging quality where fine detail is required
- Excellent durability
- Low tack plate throughout, clean running on press
- UV, heat, and humidity stable
- Wide imaging latitude that delivers exceptional results from demanding artwork
- Environmentally friendly

◆ SPECIFICATIONS

- **Thickness**
 - Gauge: .067" - .125"
 - Floor: .030" - .085"
 - Relief depth: .045"
- **Appearance:** Red Color
- **Hardness:** 55 Shore A Durometer
- **Storage:** Away from light in a cool, dry place with a relative humidity of ~ 60%

◆ REPRODUCTION

- **Isolated dots:** .015" diameter
- **Fine lines:** .007" width

◆ PROCESSING

- Designed to process with AVantage® defoamer, detergent, developer & AV washout solution.
- **Time Recommendations:**
 - Back exposure: 15 - 45 seconds
 - Main exposure: 2 - 4 minutes
 - Washout: 5 - 10 minutes
 - Post exposure: 10 minutes
 - Drying: Less than 30 minutes

◆ PACKAGING

- 40 lb. delt, net weight





AVStamp (AVS)

AVStamp is specifically formulated for the craft, hobby, and scrapbook markets where yellowing resistance and clarity are essential. It is a highly flexible, polyester-backed plate that combines yellowing resistance with UV stability for impressive flexibility and durability.

APPLICATIONS

- Stamp Industry

FEATURES & BENEFITS

- Non yellowing
- Exceptional clarity
- Medium tack plate throughout
- UV, heat, and humidity stable
- Highly resilient, flexible plate with excellent ink transfer
- Wide imaging latitude that delivers exceptional results from demanding artwork
- Environmentally friendly

SPECIFICATIONS

- **Thickness**

- Gauge: .107"
- Floor: .062"
- Relief depth: .045"

- **Appearance:** Clear Color

- **Hardness:** 50 Shore A Durometer

- **Storage:** Away from light in a cool, dry place with a relative humidity of ~ 60%

REPRODUCTION

- **Isolated dots:** .010" diameter
- **Fine lines:** .007" width

PROCESSING

- Designed to process with AVantage® defoamer, detergent, developer & washout solution.
- **Time Recommendations:**
 - Back exposure: 30 - 90 seconds
 - Main exposure: 3 - 6 minutes
 - Washout: 5 - 10 minutes
 - Post exposure: 10 minutes
 - Drying: Less than 30 minutes

PACKAGING

- 40 lb. delt, net weight
- 55 gal. drum
- 2,000 lb. tote



AVstar™ Analog Film Replacement Systems

Streamlined, reliable, and easy to use.

AVstar™ is a complete imaging solution for producing high-quality negative and positive film - an ideal analog replacement for corrugated, screen, and other line work applications. The system pairs a powerful RIP with an imager or inkjet printer to deliver fast, plate-ready results.

Flexible and chemical-free.

With multiple RIP options and configurable workflows, AVstar adapts to your operation. It requires no harsh chemicals, and used consumables can be discarded with no special disposal costs. Our custom inks and substrates ensure consistent, high-quality imaging every time.

On-site setup, training, and ongoing support.

Each AVstar™ system is installed and optimized on-site by Anderson & Vreeland's Technology Team, who provide hands-on training and ongoing support - one of the core reasons customers trust AVstar for dependable, long-term performance.

◆ Inkjet Configuration

- StudioRIP + AV Custom Server (32 GB)
- Mutoh - 44" RJ900x or 64" XPJ-1642WRP
- Bulk ink system includes four (4) proprietary ink bags and film

Specs

- 1200 dpi
- Up to 100 line screen
- Minimum 6 point type
- Both 44" and 64" can run smaller size film

◆ Thermal Configuration

- StudioRIP + AV Custom Server (32 GB)
- Techsetter 2 (up to 12"x25") or Techsetter 4 (up to 24" x unlimited plot length)
- Thermal film (14" / 24")

Specs

- 1200 dpi
- Up to 100 line screen
- Minimum 6 point type
- Both 44" and 64" can run smaller size film

◆ Digital Configuration

- StudioRIP + AV Custom Server (32 GB)
- ThermoFlexX Digital Imager
- Laserpoint Film
- Integration Package (Installation + 1 Year SMA)

Specs

- 1200 dpi
- Up to 175 line screen
- High resolution and quality
- No ink required — ablated just like digital plates



AV Ultrawash

The AVantage[®] AV Ultrawash 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.

◆ FEATURES & BENEFITS

- Specially formulated for AVantage[®] liquid photopolymer resin
- Breaks down and emulsifies resin effectively
- Superior chemistries for consistent results
- Ensures clean washout every time



AVE Defoamer

A silicone emulsion defoamer that minimizes foam in developer baths that use AVantage[®] AV Ultrawashout Solution or a 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.



◆ FEATURES & BENEFITS

- Silicone emulsion formulation
- Minimizes foam in developer baths
- Improves spray pressure effectiveness
- Enhances washout of photopolymer resin
- Optimizes plate development process

AVE Developer

A silicone emulsion defoamer that minimizes foam in developer baths that use AVantage[®] AV Ultrawash and AVE Defoamer. 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.

◆ FEATURES & BENEFITS

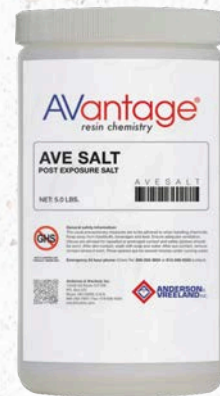
- Acts as a dispersant
- Ensures consistent developer bath formulation
- Compatible with AVWashout solution and AVDefoamer
- Optimizes liquid photopolymer plate processing
- Enhances overall plate quality





AVE Salt

AVantage® Post Exposure Salt facilitates the detacking of AVantage® liquid photopolymer printing plates. It 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.



AVSUB Substrate

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



AVCOV Cover Film

Matte & Clear

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.





Anderson & Vreeland, Inc.

Anderson & Vreeland, Inc. (“A&V”) offers top-quality flexographic plate-making materials, being the sole North American manufacturer and distributor of both liquid and all types of sheet photopolymer. Their products include liquid resins, engravable plates, thermal, solvent, and water-wash plate options. A&V’s AVantage® liquid photopolymer resins ensure optimal elasticity and ink transfer.

A&V’s dedicated polymer representatives assist customers in selecting the best polymer for their needs, supported by eight warehouses and trained sales consultants across three time zones for efficient service.

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