

# AOC RESINS

World Leader in Resin Technology

**FOR BOATS OF  
DISTINCTION**



  
**Hydropel**<sup>®</sup>  
HIGH PERFORMANCE MARINE RESINS

  
**Vibrin**<sup>®</sup>  
GEL COATS

  
**Altek**<sup>®</sup>  
GENERAL PURPOSE LAMINATING RESINS

  
**MoldTru**<sup>™</sup>  
TOOLING RESINS

AOC has been a leader in the marine business for more than five decades and continues to develop new technologies that help customers leave their competitors behind.



## PREMIUM RESINS

AOC's high performance resins offer great processability on the shop floor and superior performance in the water. They surpass mechanical, water absorption and finish requirements of major boat builders worldwide.

### Hydopel H100 – 100% Vinyl Ester

- Imparts excellent composite strength and toughness
- Ultimate osmosis resistant barrier
- Reduced Post Cure
- Very good surface profile
- MACT Compliant

### Hydopel H034-A – Modified Vinyl Ester

- Imparts excellent composite strength and toughness
- Enhanced resistance to cracking caused by laminate flexural failure
- Improved surface profile
- Very good osmosis resistant barrier
- Suitable for use as skin coat or two-stage bulk laminate
- MACT Compliant

### Hydopel H036-A – Isophthalic Modified Vinyl Ester

- Imparts excellent composite strength and toughness
- Enhanced resistance to cracking caused by laminate flexural failure
- Improved surface profile
- Excellent green-strength development
- Very good osmosis resistant barrier
- Suitable for use as skin coat or two-stage bulk laminate
- MACT Compliant

### Hydopel H032 – Vinyl Ester/ Polyester Blend

- Most economical choice
- Suitable for use as a skin coat or bulk laminate
- Outstanding wet-out
- MACT Compliant

**A NEW ERA** in boatbuilding technology is here with the superior strength, performance and aesthetics of marine resins and gel coats from AOC.

### MARINE LEADERSHIP

Resins and gel coats literally form the important foundation to every boat. AOC brings decades of expertise and experience to the science of boat manufacturing. AOC's complete product line includes materials for boat hulls, molding tools, and other composite applications for the marine industry.

### QUALITY

Consistent performance, boat after boat, must include consistent and reliable materials. AOC materials are manufactured to world-class quality control standards in manufacturing plants which are certified as meeting ISO 9001:2008 requirements. AOC's proprietary process control provides the industry's highest levels of consistency, time after time.

## GENERAL PURPOSE RESINS

AOC's marine resins provide an invulnerable layer of protection for boats from the keel to the deck. They're proven to resist blistering, cracking and corrosion while delivering strength and toughness on finished parts.

### Altek H864-M – Low Profile, Isophthalic Modified

- Fast cure with only moderate shrinkage
- High Heat Distortion Temperature (HDT)
- Improved wet-out / roll-out characteristics
- Produces tough, durable composites
- MACT Compliant

### Altek H866-B – Low Profile, Enhanced Resistance to Osmosis

- Resilient polymer, high elongation
- High Heat Distortion Temperature (HDT)
- Excellent wet-out
- Plentiful working time with rapid Barcol progression at lower exotherms
- MACT Compliant

### Altek H856-S – Low Profile, Designed for Lower Processing Temperatures to 15C

- Rapid laminate cure rates
- Imparts very good surface profile
- Works with fiberglass containing powder binder
- MACT Compliant

### Altek H834-R – Low Profile, General Purpose

- Fast laminate cure rates
- Imparts very good surface profile
- Rapid wet-out / roll-out characteristics
- MACT Compliant

### Altek H864-F – Low Profile Toughened Polymer

- Higher flexural strength and elongation
- Reduced gel coat cracking in laminates
- Resistant to post cure and print issues
- MACT Compliant

## RTM / INFUSION RESINS

AOC offers optimum resins for intermediate closed mold processes.

### Hydopel R015-APF-55 – High Performance Vinyl Ester

- Excellent strength and toughness
- Low viscosity
- Rapid and controlled infusing times
- Low laminate exotherms for excellent cosmetic surface

### Hydopel R037-YPF-78 – Modified Vinyl Ester

- Low viscosity for fast mold fill times
- Capable of high filler loading
- Low shrinkage
- Formulated for rapid Barcol development
- Excellent strength and toughness

### Hydopel R049-CPF-17 – Low Profile Modified Vinyl Ester

- Excellent surface quality
- Superior mechanical properties
- Lower in-mold exotherms than typical low profile systems
- Capable of high filler loading

### Altek R834-FUD-23 – Modified ISO Polyester

- Medium reactivity
- High Heat Distortion Temperature (HDT)
- High elongation
- Low shrinkage

### Altek R937-UPE-15 – Low Shrink Polyester

- Used for small parts
- Low viscosity for fast mold fill times
- Capable of high filler loading
- Rapid Barcol development for quicker de-mold times
- Low laminate exotherm
- Improved surface cosmetics

## SPECIALTY RESINS

AOC has created a complete line of resins for every composite application in the marine industry.

### MoldTru Tooling Resin – LPT-68000

- Creates Class "A" low-profile tool surfaces
- Allows up to five layers of laminate to be applied simultaneously
- Saves time by reducing production steps and overnight cure
- Excellent glass fiber wetting
- Near zero shrinkage

### Hydopel H010 Barrier Coat

- Excellent surface profile
- Provides maximum resistance to osmotic blistering
- Improves resistance to glass print-through
- Does not require gel coat cure prior to application

### Vipel K095 – Fire retardant Corrosion Resistant Vinyl Ester

- Fire resistant resin for gasoline/ethanol/diesel fuel tanks

### Vipel K022 – Fire retardant Corrosion Resistant Vinyl Ester

- Fire resistant resin for diesel fuel storage tanks

### Vipel F774 - F764 – Corrosion Resistant Polyester

- Specialty resin suitable for diesel and gasoline/ethanol fuel storage

## GEL COATS

AOC gel coats and resins work together to bring top-notch performance and aesthetics. Our gel coats ensure a high-quality finish and meet specific requirements for color, gloss, protection, durability and processability

### Vibrin G370 Low HAP ISO NPG

- Excellent weather resistance
- Resistant to blistering, blushing and water-spotting
- MACT Compliant

### Vibrin G515 Low HAP High Flex ISO NPG

- High elongation
- Good weather resistance
- Good blister resistance
- MACT Compliant

### Vibrin G560 Low HAP High Performance

- Premium weather resistance
- Recommended for darker colors
- Resistant to blistering, blushing and water-spotting
- MACT Compliant

### Vibrin G141 – Interior Air Dry – Matte

- Pigmented air-dry gel coat
- Matte finish
- Stain resistant to most common engine fluids
- MACT Compliant

### Vibrin G920 – Interior Air Dry – Gloss

- Pigmented air-dry gel coat
- Glossy finish
- Stain resistant to most common engine fluids
- MACT Compliant



# THE WORLD OF AOC®

AOC is a leading global supplier of resins, gel coats, colorants, additives and synergistic material systems for composites and cast polymers. AOC knows technology, lives quality, and delivers service better than any other resin supplier. For more information, go to

***AOC-RESINS.COM***

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