



**Sustainable – Innovative – Close to Our Customers**

ALBERDINGK® AC 2384

Alberdingk Boley, Inc.





## ALBERDINGK® AC 2384

- High Solids (53%) Exterior Acrylic Resin
- Free of **APEO, fluoro-surfactants and Benzophenone.**
- Near-zero VOC, flat through satin exterior coatings.
- Excellent Resistance to:
  - Grain Crack
  - Dirt Pick Up
  - Efflorescence
  - Surfactant Leaching





## Properties

Excellent grain cracking resistance  
on softer wood

Excellent adhesion

Excellent dirt pickup resistance

Excellent water resistance

Excellent efflorescence resistance





## Technical Targets for Exterior Acrylic

- Low to zero VOC capability >>> low MFFT
- High solids (> 53%)
- 100% acrylic
- Eco-friendly and free of PFAS, APEO surfactants and benzophenone
- Formulation latitude and good compatibility



## Technical Data

Solids content [%]	52 - 54
Viscosity [mPas]	500 - 2500
pH-value	8.0 - 9.0
MFFT [°C]	approx. 11
Morphology	Single-phase
Polymer type	100% acrylic
VOC capability	Near-zero to low VOC



## Binder Typical Properties

Property	AC 2384	Competitor 1
Solids [%]	53	53
MFFT [°C]	11	7
pH-value	8.0 - 9.0	7.8 - 9.0
Viscosity (cps)	500 - 2500	< 1000
Morphology	Single-phase	Single-phase
Particle size (nm)	~120	~130



## Accelerated Dirt Pick-Up Resistance

- Internal test method
- Apply coatings and dry for 7 days followed by exposure to QUV light (340nm) for 500 hours.
- Cover with a wet cloth for 1.5h, blot dry and stain for 3h, then in oven for 1h.
- Wash off stain and measure color difference

Comparable stain release results!

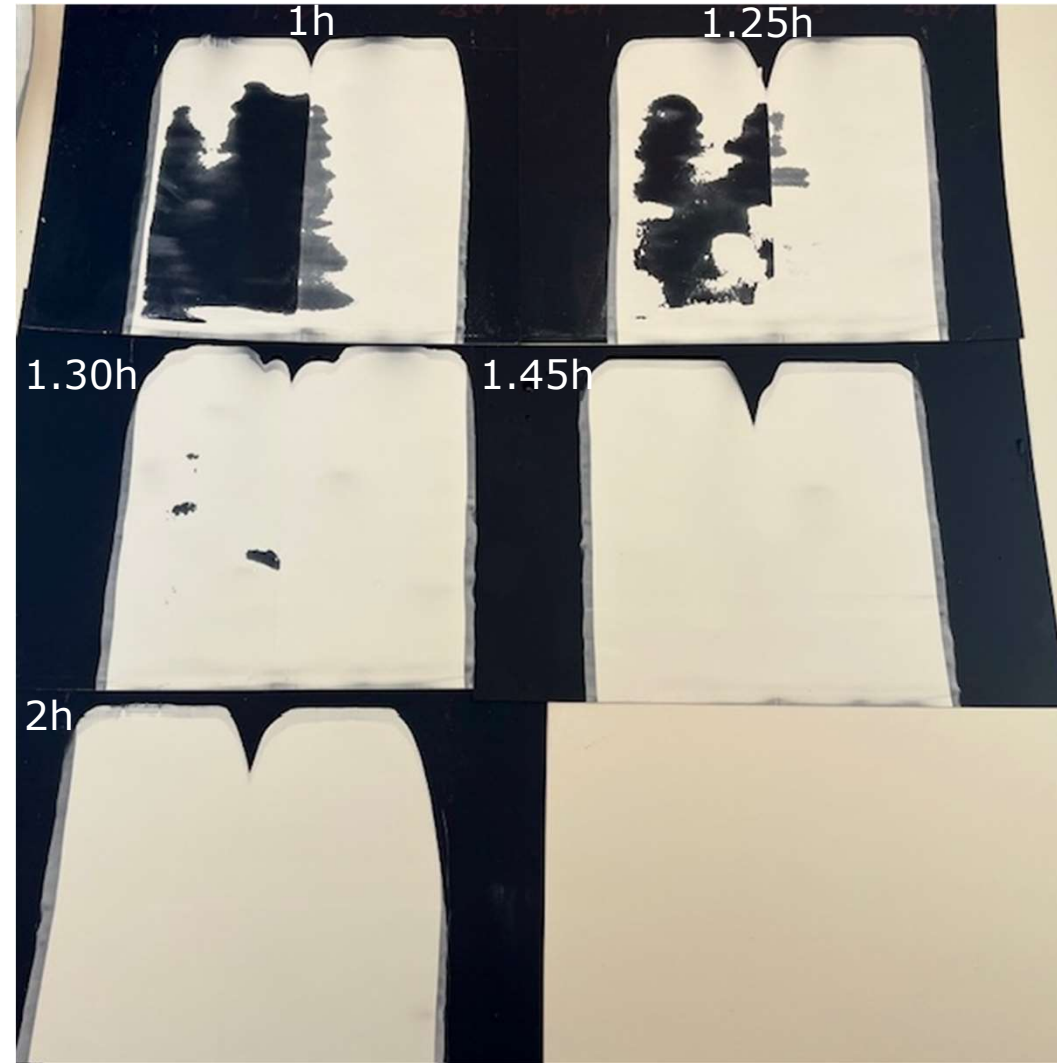


# Early Rain Resistance

- 7 mil wet coating applied
- Variable drying times
- Water application using a hand sprayer

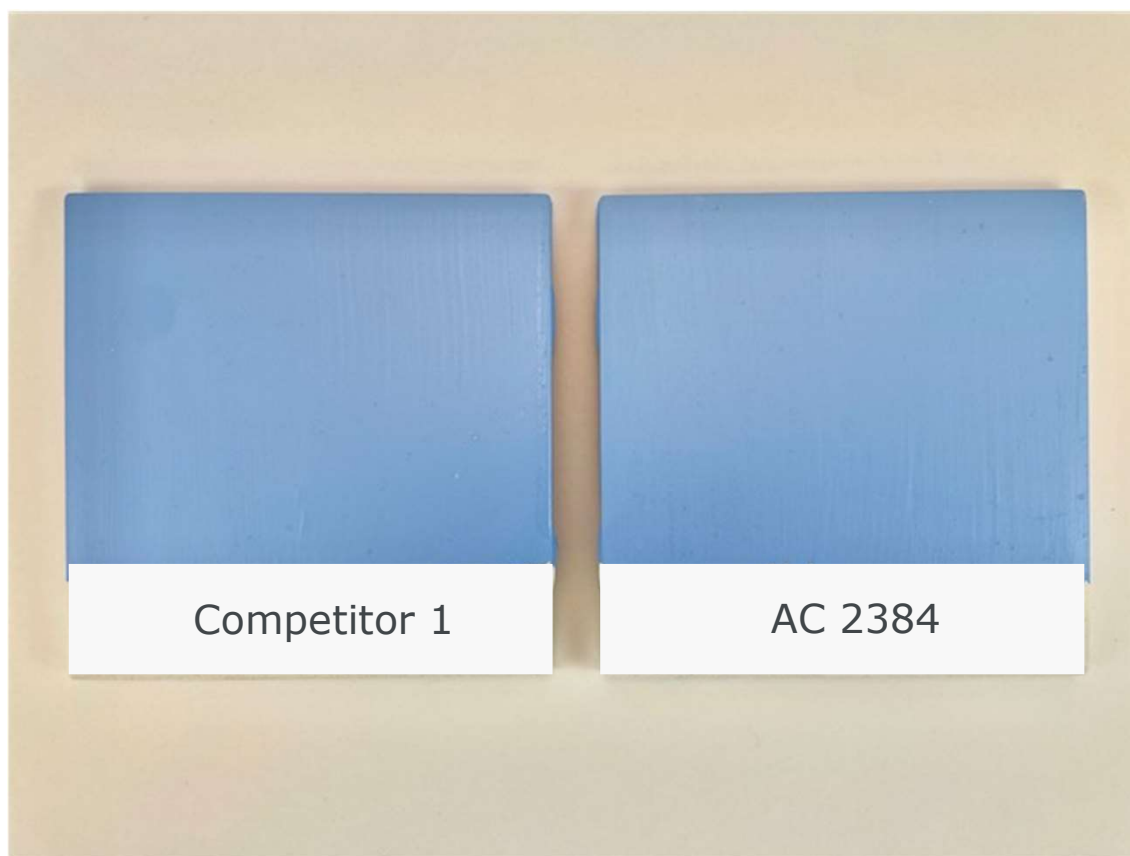


(left) Competitor 1 (right) AC 2384



## Efflorescence Resistance

- Accelerated Testing
- 10% Volume solids pigmented tinted with phthaloblue
- No efflorescence issues



## Scrub Resistance (cycles)

Properties	
% Weight Solids	56.63
PVC	31.66
VOC g/L	50





## Summary

### **ALBERDINGK® AC 2384 - new high solids exterior acrylic:**

- Delivers outstanding performance for exterior architectural paints, without the use of hazardous and restricted additives.
- Can be formulated near-zero VOC without compromising paint performance and maintains high durability including dirt pick up resistance.
- Very good efflorescence resistance
- Weathering exposures underway



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