



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

ALBERDINGK® AC 2380

Alberdingk Boley, Inc.

*November 2023*





# ALBERDINGK BOLEY

## ALBERDINGK® AC 2380

- High Solids (59%) 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 (> 55%)
- 100% acrylic
- Eco-friendly and free of PFAS, APEO surfactants and benzophenone
- Formulation latitude and good compatibility



## Technical Data

Solids content [%]	58 - 60
Viscosity [mPas]	200 - 2000
pH-value	8.5 - 9.5
MFFT [°C]	approx. 8
Morphology	Single-phase
Polymer type	100% acrylic
VOC capability	Near-zero to low VOC



## Binder Typical Properties

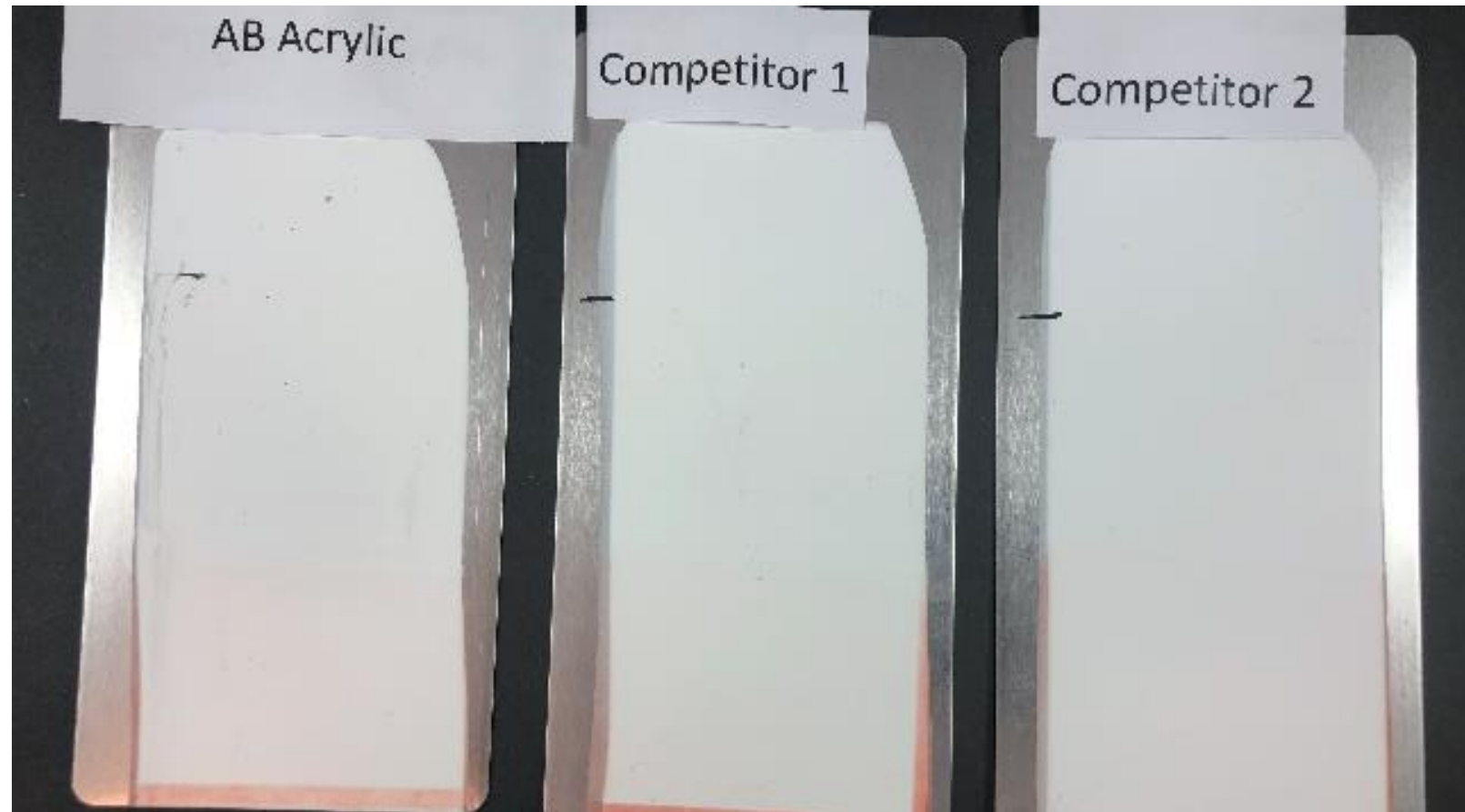
Property	AC 2380	Competitor 1	Competitor 2
Solids [%]	58-60	53	58.5
MFFT [°C]	8	7	6
pH-value	8.5 - 9.0	7.8 - 9.0	7.7-8.7
Morphology	Single-phase	Single-phase	Single-phase



# Accelerated Dirt Pick-Up Resistance

- Internal test method
- 500 hours QUV 340nm light
- Water soak
- Stain and drying at RT then in oven
- Wash off stain and measure color difference / take photo

Comparable stain release results!



 Exterior Durability: 1 year CA Exposure

Semi Gloss 50 g/L  
20 PVC

AC 2380

175 1

A B

C D

Flat 50 g/L  
40 PVC

AC 2380

175 2

A B

C D





# Exterior Durability: 18 months CA Exposure

Semi Gloss 50 g/L

AC 2380

8675 1

A B

C D

Flat 50 g/L

AC 2380

8675 2

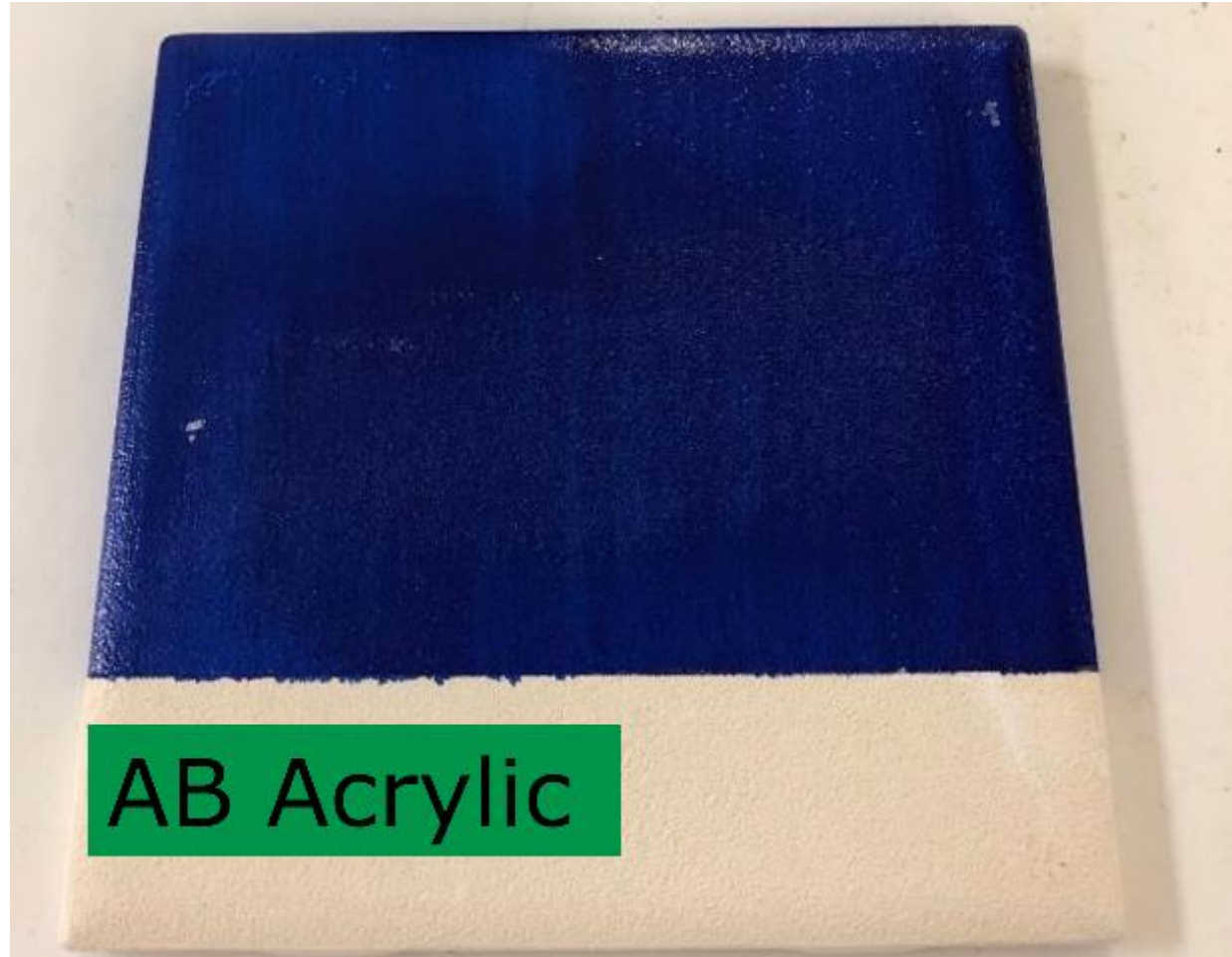
A B

C D



## Efflorescence Resistance

- Accelerated Testing
- 10% Volume solids clear
- No efflorescence issues





# Dry Adhesion to aged alkyd "Zero VOC" Exterior Flat Coating





## Summary

### **ALBERDINGK<sup>®</sup> AC 2380 - 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.

**Disclaimer:**

The aforesaid information is based on our present state of knowledge and shall inform about our products and their application possibilities. It is not intended to assure certain characteristics of the products and their suitability for precise application fields. Products including "VP" in their label are trial products during test stage. For these products Alberdingk Boley is only able to provide preliminary characteristics without obligation. Please consider possible industrial property rights. Subject to change without prior notice. ALBERDINGK® and ALBODUR® are registered trademarks of ALBERDINGK BOLEY GmbH or an affiliate thereof in one or more, but not all, countries. Possible trademark rights of third-party products mentioned have to be observed.



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