



## Architectural Concrete Chemicals

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# Altus Series V.O.C. In-Form Retarder

**PRODUCT DESCRIPTION:** Altus Series V.O.C. In-Form retarders are a group of high performance in-form retarders with excellent heat and abrasion resistance. A single full-bodied coat or two light coats of any Altus Series V.O.C. retarder will yield reproducible, uniform results. Available in 10 depths of etch, a test panel-simulating job conditions should be poured for proper grade selection. Coverage: approximately 300-350 sq. ft. /gal. Altus Series V.O.C. is a reformulated low emitting version of Altus Series developed for the California precast and cast in place market specifically within the SCAQMD.

**AREA OF APPLICATION:** Perfectly suited for architectural precast concrete of all types, insulated panels in particular, or cast-in-place concrete. Placement time up to 40 minutes without damage to the retarder on the form. Heat resistance up to 160° F. For use with steel, concrete or plywood forms. *Note that plywood forms should be sealed before use (see ACC Form Seal WB) or use MDO or better for best results.*

**DIRECTIONS:** Thoroughly mix before application. Apply In-Form Retarder, a single hiding coat of any Altus Series V.O.C. retarder using a brush, roller, or airless sprayer at a rate of 300-350 sq. ft. /gal. (3-5 mils). Clean up with ACC Solve or compliant mineral spirits. Allow the retarder to dry thoroughly (approximately 20 minutes depending on temperature and humidity) before placing concrete. *Caution: When steam curing; bring the temperature up gradually to allow the surface retarder to react properly with the concrete. Note: If steam is to be used, it should also be used with the test panel poured for the proper grade selection.* Remove the retarded matrix at the end of the curing cycle with high-pressure water or by sandblasting. Any remaining retarder may be easily removed from the mold with a scraper or stiff broom after the moisture has dried from the form surface. (The Micro Finishes are best applied with a ¼" nap roller using 2 light cross coated coats allowing complete drying between coats.)

**TECHNICAL DATA:** Solvent-based. Flash point 45° F. Heat resistance up to 180 ° F. See Retarder Guide for help in grade selection. Meets EPA's VOC requirements for Non-photochemically reactive compounds, contains less than 6 g/l of V.O.C.'s, allowable for use in all jurisdictions conforms to all regulations including the SCAQMD.

**SHELF LIFE AND STORAGE:** 5 years from manufacturing date in closed original container.

**PACKAGING:** 5-gal steel pails.

**SAFETY:** Highly flammable. Keep away from heat, sparks and open flames. Use respirator for spray applications.

**SHIPPING CLASSIFICATION:** UN1263, Paint Related Material, 3, P.G. II

<u>Finish Type</u>	<u>Grade Selection and Color Code</u>	<u>Exposure</u>	<u>Aggregate Size</u>
<u>Micro Finish</u>	<ul style="list-style-type: none"> <li>• Xtra Lite - White (03)</li> <li>• Sand - Teal Blue (05)</li> <li>• Deep Sand - Blue Green (10)</li> </ul>	Med. Acid Wash Sand Exposure Deep Sand Exp.	Sand Sand Sand/ Fines
<u>Sandblast Finish</u>	<ul style="list-style-type: none"> <li>• Lite - Green (15)</li> <li>• Medium - Orange (25)</li> <li>• Deep - Blue (50)</li> </ul>	Light Sandblast Med. Sandblast Deep Sandblast	1/8 – 1/4" 1/4 - 3/8" 3/8 – 1/2"
<u>Exposed Finish</u>	<ul style="list-style-type: none"> <li>• Sm. Agg. - Yellow (75)</li> <li>• Med. Agg. - Lt. Green (125)</li> <li>• Large Agg. - Pink (175)</li> <li>• XL Agg. - Gray (250)</li> </ul>		3/8" 1/2" 5/8" 3/4 +

**Micro Finish Series**



**Sand-Blast Series**



**Exposed Finish Series**



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