

PRODUCT DESCRIPTION

Altus Series In-form retarders are solvent-based surface retarders engineered to create architecturally refined sand finishes and exposed aggregate concrete. Altus prevents hardening of cementitious paste to a predetermined depth, ranging from a light sand finish to full aggregate exposure, designed for use in horizontal or vertical formwork on cast-in-place or precast applications.

Altus Series VOC is a reformulated low emitting version of Altus Series developed for the VOC restricted areas.

Altus is available in 10 different colors to designate the depth of etch or aggregate exposure. When applied to formwork they provide an abrasion-resistant surface so that concrete, while being placed, doesn't remove retarder from the forms. The retarder coating on the form reacts chemically with the concrete, retarding the hydration/strength gain of the surface paste of the concrete in contact with the retarder. After the concrete has set and the form pulled, the surface of the concrete that was in contact with the form may be flushed with high pressure water. This rinses away the paste revealing the desired depth, exposing aggregate or simply imparting a sandblast or acid etch effect.

USES

- Residential or Commercial
- In-form retardant
- Vertical applications
- Precast applications

FEATURES

- Easy application
- Alternative to acid washing or sandblasting
- Roll or spray on forms
- Color coded
- 10 levels of aggregate exposure
- Available in (2) formulas
- **Altus**
- **Altus VOC** for lightly exposed finishes and for general use in areas with VOC restrictions
- Heat and abrasion resistant
- Consistent results

COVERAGE RATES AND PACKAGING

- 300-350 square feet/gallon
- 5 gallon pails

STORAGE & SHELF LIFE

24 months from date of manufacture.

USE & APPLICATION

Solomon Colors highly recommends creating mockups when using the Altus product. Mix designs including cement content, ad-mixtures, sand and aggregate blends, and color will all have an effect on the final appearance.

Traditional forming materials such as steel or wood can be used. Please note that unsealed plywood or wood forms will need to be pre-treated with Form Seal or equal prior to applying the Altus. When using engineered wood forming materials, we recommend the use of HDO or MDO as results are more predictable and consistent. The use of Form Seal is not required on HDO or MDO.

Thoroughly mix the Altus product prior to applying the product. Brush, roll, or use an airless sprayer to apply the Altus on to the form at 3-5 mils at a rate of 300-350 square feet/gallon.

Be sure to keep the lid on any unused Altus in the bucket.

Allow the retarder to dry thoroughly (approximately 20-40 minutes depending on temperature and humidity) before placing concrete.

Assemble forms using care to protect the Altus retarder film from damage.

Be sure to protect the Altus retarder film from contact with any moisture from rain, dew, or excessive humidity.

When placing the concrete, use an elbow on the concrete pump hose and large splash boards to reduce excess abrasion of the Altus film from the surface of the form during placement.

The active contents of the retarder start to affect the cement paste 30-40 minutes after coming in contact with the plastic concrete during placement. To avoid "pour lines" in the final finish after wash off, ensure that lift intervals during concrete placement for taller structures do not exceed 30-40 minutes. Adjust form engineering accordingly.

Use a concrete vibrator to consolidate the concrete in the form. Additional consolidation can be achieved with vibration on the outside of the form as well.

Paste removal and aggregate exposure can be achieved with a pressure washer or water/sand abrasive blasting following appropriate set times. Set times will vary depending on temperatures and mix designs. Paste removal times should be determined during the mockup phase.

Forms should be removed in coordination with paste removal. Do not remove forms too far ahead of the pressure washing operation to allow for even aggregate exposure.

Once the concrete paste has been removed, inspect for even aggregate exposure. Areas with excessive paste left on the surface can be treated with Micro Finish Gel. When even aggregate exposure has been achieved, wash the concrete with Brickform E-Etch and Neutra Clean.



CURING & SEALING

Cure the concrete according to ACI standards or accepted manufacturing practices.

If the concrete is to be sealed, use Brickform sealers such as Stealth Seal, Gem Seal, Poly Seal, Gem Guard, or Cure and Seal WB.

MAINTENANCE

Clean any sealed concrete and inspect to determine if additional sealer needs to be applied. Apply as needed

RECOMMENDED TOOLS & CLEAN UP

- Drill and paint mixer
- Solvent resistant roller frames and 3/8" nap roller covers
- Solvent resistant brushes
- Airless Sprayer with tip size of .024-.025
- Paint strainers
- Clean all tools with mineral spirits, xylene, or CitriSolve. Do NOT use water.
- Clean forms with Brickform CitriSolve

COMPLEMENTARY PRODUCTS

- Solomon/Brickform Integral Color
- Solomon Ultra Fiber
- Brickform E-Etch and Neutra-Clean
- Brickform Micro Finish Gel
- Brickform CitriSolve
- Brickform Form Seal

Note: Form Seal is not VOC compliant in all states. Please check local VOC regulations prior to considering the use of this product.

SAFETY & PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Before using or handling, read the Safety Data Sheet and Warranty. **DO NOT TAKE INTERNALLY.** Avoid contact with eyes and skin. When working with or near this product, all personnel must wear MSHA-NIOSH approved respirators (refer to OSHA standards in 29 CFR 1910.134). Prolonged, unprotected exposure may result in non-reversible Silicosis or Lung Cancer. Avoid inhalation and use local exhaust to keep exposures below OSHA PEL's for silica and nuisance dusts. Avoid contact with skin and eyes. Wear rubber gloves and aprons to protect skin and wear safety eye goggles. Wash splatters from skin immediately. Use good hygiene when handling this product and wash and bathe after each use. Close containers after each use. Be sure to wash clothing after each use.

WARRANTY

This product is not intended for public use and is intended for use by licensed contractors and installers, experienced and trained in the use of these products. It is warranted to be of uniform quality, within manufacturing tolerances. The manufacturer has no control over the use of this product, therefore, no warranty, expressed or implied, is or can be made either as to the effects or results of such use. In any case, the manufacturer's obligations shall be limited to refunding the purchase price or replacing material proven defective. The end user shall be responsible for determining product's suitability and assumes all risks and liability.

For more information go to:

brickform.com



Grade Selection & Color	Exposure / Finish Type	VOC	Aggregate Size
(03) Xtra-Lite White	Micro Finish	VOC ONLY	
(05) Sand Teal Blue	Micro Finish	VOC ONLY	
(10) Sand Blue Green	Micro Finish	VOC ONLY	
(15) Light Green	Micro Finish		1/8" - 1/4"
(25) Medium Orange	Light Sandblast Finish		1/4" - 3/8"
(50) Deep Blue	Med. Sandblast Finish		3/8" - 1/2"
(75) Small Agg. Yellow	Deep Sandblast Finish		3/8" Graded
(125) Med Agg. Lt. Green	Exposed Finish		1/2"
(175) Large Agg. Pink	Exposed Finish		5/8"
(250) XL Agg. Gray	Exposed Finish	Non VOC ONLY	3/4" +