



ALTA 1700 HYBRID SELAER

Clear Gloss

Product Series #1700

PRODUCTION DESCRIPTION

Alta's Hybrid Sealer is a low viscosity, two-component, acrylic polyurethane designed for priming and sealing concrete. It is film forming, non-yellowing, UV Stable coating that leaves the surface with a wet look. Alta Hybrid Sealer is VOC compliant in all states and provinces in North America. The product cures to an inert, durable, clear, gloss finish.

Alta's #1700 Hybrid Sealer provides the applicator with extended working time and has an unlimited re-coat window, which is different than most other polyurethanes. When re-coating you must ensure that the surface is clean and free of contaminants. The Hybrid Sealer is ideal for use on irregular surfaces, such as cementitious knockdown, where an acrylic sealer is unacceptable. For added durability, apply a second sealer coat. Do not apply at less than 300 sq. ft. (27.9 sq. m.). Not intended for use as an epoxy coating or flooring overlay primer. Warning This product contains Isocyanates and Solvent.

FEATURES

- » Excellent adhesion to concrete.
- » Concrete adhesion promoter/primer for many polyurethanes
- » Formulation provides for significantly extended working times vs. similar coatings.
- » Slip Resistant Formulations Available (ADA)
- » Meets LEED® and Green Seal® requirements.
- » VOC and EPA Compliant in all states and provinces in North America. Cures to an inert finish
- » Longer lasting gloss retention, more durable and tougher than acrylic floor sealers
- » As a sealer it is ideal for textured concrete and cementitious over-layments because it's re-coat window in limitless

TYPICAL USES

- » Primer for many polyurethanes
- » Interior and exterior concrete, cementitious over-layment and sealer
- » Ideal for textured concrete, cementitious over-layments and masonry where recoating does not require abrasive surface preparation.
- » Unlimited recoat window.

COLOR

- » Clear Gloss

COVERAGE

Coverage's and yields shown do not include allowances for loss or waste and variations in job conditions. Each user must establish their own factors for loss from experience.

PACKAGING

| | |
|----------------|---|
| 10-gallon kit | One 5 gallon (18.9 liters) pail of Side-A and One 5 gallon (18.9 liters) pail of Side-B |
| 100-gallon kit | One 55 gallon drum (net 50 gallons, 189 liters) of Side-A and One 55 gallon drum (net 50 gallons, 189 liters) of Side-B |

BENEFITS

- » Excellent adhesion to concrete.
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CONCRETE

- » Concrete must be structurally sound and free of curing agents, coatings, sealers, densifiers, and other bond breakers.

NEW CONCRETE

- » Place concrete per ACI 302.2R Guide for Concrete Slabs that Receive Moisture Sensitive Floor Materials.
- » Water Cement Ratio 0.4 to 0.5 and an approximate 4,000 psi (28MPa) strength level.
- » Requiring a positive side moisture barrier in direct contact with the concrete meeting ASTM E1745 Standard Specification for Plastic Water Retarder Used in Contact with Soil or Granular Fill under Concrete Slabs.
- » The moisture barrier needs to be placed per ASTM E 1643 Standard Practice for Selection, Design, Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs, Class A 15 mils (0.38mm).

NEW CONCRETE

- » Contaminants include, but are not limited to organic hydrocarbon materials, calcium chlorides, and aluminum stearates.
- » Concrete flooring slabs can lose their structural strength over time, caused by conditions beyond the control of the flooring manufacturer or the installation contractor.
- » If the concrete substrate deteriorates sufficiently it will no longer support the bond of the remediation floor system.
- » Such conditions are detailed in ACI1201.2R "Guide to Durable Concrete" published by the American Concrete Institute.

CHECK CONCRETE MOISTURE

Concrete must be dry before application of this floor coating material. Concrete moisture tests are required, either ASTM F1869 (calcium chloride) or ASTM F2170 (in situ RH probe). Refer to appropriate Technical Data Sheet limits

CHECK TEMPERATURE AND HUMIDITY

Floor and material temperature must be at or above the published Technical Data Sheet requirements. Dew point must be 5°F (3°C) or more below the surface temperature. Do not apply if humidity is at or above 85%.

SURFACE PREPARATION

Surface preparation in accordance with: ICRI Guideline No. 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair. The pH of the concrete substrate should be at 9 or above. All bond-breaking material must be removed.

SKID RESISTANCE

Skid-Resistance – Field (in situ) Wet Dynamic Coefficient of Friction (DCOF), ANSI A326.3.

OPTIONAL ANTIMICROBIAL

The antimicrobial additive Silver® (sodium hydrogen zirconium phosphate) is a non-heavy metal biocide that can be added during the manufacturing process. (EPA Regulation Number 11631.2. and US Patent Number US 9,247,736 B2). The antimicrobial agent can be added to the topcoat only for an economical application or it can be added to each step of the application, primer, body coat and topcoat, which is recommended for abusive environments.

MIXING

For ease of mixing and placement, the temperature of the "A" and "B" components should be between 70°F to 80°F (20°C to 26°C). Pre-mix the "A" and "B" component to ensure all raw material and pigments are dispersed uniformly.

LIMITATIONS

- » Polyurethane primer only, not for other coating and flooring chemistries. For example, not for epoxy.
- » This product is best suited for applications in temperatures between 60°F to 90°F (16°C to 32°C).
- » Do not apply when relative humidity exceeds 85%
- » Higher temperatures will result in shorter working time and drying time.

APPLICATION EQUIPMENT

Depending on system applied: Variable low speed drill (450 rpm) with Jiffy® type impeller mixing paddle, disposable 3" brush for cutting in, 3/8-inch nap non-shedding phenolic core roller and rubber squeegee for spreading Alta #1500 Series products. Pour, squeegee and back-roll suggested. Dip-n-Roll application can be challenging for inexperienced installers resulting in unattractive lap lines.

APPLICATION

After mixing all contents as instructed, immediately pour all liquid material on to the properly prepared concrete substrate or next lift in ribbons and squeegee the material out evenly. Back-roll and cross rolling of material. Check for desired wet film thickness with a WFT Gauge. If broadcasting aggregate, such as, 60 mesh or 90 mesh, broadcast a sprinkle (not full broadcast) into the wet material.

| PHYSICAL PROPERTIES AT 77°F (25°C) | |
|---|-----------------|
| VOC (Volatile Organic Compounds), (VOC Calculated Per ASTM D3960) | <100 gr./lt. |
| Viscosity, Mixed | 250 cps |
| Solids Content, by weight | 38.5% |
| Mix Density, Mixed | 9.2 lbs./gal |
| Pot Life, 1-gallon (3.79 liters) Mass, Pot Life is Reduced by Increases in Mass and Temperature | 45 Minutes |
| Mix Ratio, by Volume | 2:1 |
| Minimum Application Surface Temperature | 50°F |
| Dry to Touch 50°F to 90°F (10°C to 32°F) | 2 to 6 Hours |
| Recoat Time 50°F to 90°F (10°C to 32°F) | 6 to 12 Hours |
| Light Traffic 50°F to 90°F (10°C to 32°F) | 24 Hour Minimum |
| Full Cure 50°F to 90°F (10°C to 32°F) | 4 to 7 Days |
| Shelf Life (shipped and stored) at 40°F to 100°F (4.4°C to 38°C) | 1 Year |

CLEAN UP

Cleanup mixing station, tools, and equipment as required. Use acetone, a VOC exempt solvent, for cleanup. Observe all legal, and health and safety precautions when handling or storing solvents and materials, particularly in confined spaces. Make sure the working areas are always well-ventilated during placement and curing time.

MAINTENANCE

Inspect the installed floor by spot cleaning and spot repairing the damaged or cracked areas. To prolong life of the flooring system, a daily maintenance program is highly recommended to ensure the floor is safe for its intended purposes.

MECHANICAL PROPERTIES AT 79°F (26°C) 7 DAY CURE (UNLESS STATED OTHERWISE)

Surface Preparation ICRI Guideline No. 310.2R

Concrete Surface Profile (CSP 2 and above) Depending on System to be Installed and Condition of Concrete.

Gloss Index, 60 Degrees Clear Gloss, ASTM D523

90 - 95

Adhesion, ASTM D7234, Concrete Failure

400 psi

Tensile Strength, ASTM D882

5,000 psi

Tensile Elongation, ASTM D882

10%

Pencil Hardness, ASTM D3363

3H

Abrasion Resistance, ASTM D4060
1,000 cycles, Wheel No. CS17, 1000 gr. Load

0.05 gr.

1,000 cycles, Wheel No. CS17, 1000 gr. Load

Pass 1/8 Inch

Flame Test, ASTM E648, Bonded to Concrete

Class 1

Flammability, ASTM D635, Bonded to Concrete

Self-Extinguishing

Microbial (fungi) Resistance, ASTM G21 (Without the Anti-Microbial Agent) *

Pass #1

Wet Dynamic Coefficient of Friction, ASNI 326.3
Depends on texture of system selected, ranging from smooth or aggressive. Measured with BOT
3000E equipment.0.45 (inclines)
0.42 (level)

Moisture Vapor Emission Rate, ASTM F1869*

3 lbs.

Moisture Relative Humidity, ASTM F2170*

80% RH

*If moisture or relative humidity exceeds the limits consult with the Alta Paints & Coatings representative.

DISPOSAL

Dispose of empty packaging and other waste in accordance with federal, state, provinces, and local regulations.

TECHNICAL SUPPORT

For questions, contact an Alta Paints & Coatings Representative.

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