



Paints & Coatings

## ALTA 6500 SG POLYASPARTIC

Product Series #6500

### PRODUCTION DESCRIPTION

Alta SG Polyaspartic 6500 Series is a slower drying formulation offering longer working times than many traditional Polyaspartic products. The longer working window is ideal for flake, decorative and larger projects where longer working windows are required while still offering a quick return to service. Alta SG Polyaspartic 6500 Series is an environmentally friendly, VOC Compliant coating formulated to be installed on a wide variety of substrates. Alta SG Polyaspartic has outstanding adhesion, UV resistance, durability, chemical and corrosion resistance.

### ADVANTAGES

- » Extended Working Time
- » UV Stable Top Coat
- » Wide Range of Application Temperatures
- » Abrasion Resistance
- » Chemical and Moisture Resistant
- » Application to a Wide Variety of Substrates

### TYPICAL USES

- » Concrete
- » Steel
- » Cold Storage
- » Garage & Basement Floors
- » Areas Requiring Chemical Resistance
- » Plywood
- » Food Processing
- » Parking Decks
- » Exterior Patios & Walkways
- » Secondary Containment

### COLOR

- » Clear
- » Gray
- » Tan

### PACKAGING

2-gallon kit      1 gallon (3.78 liters) can Side-A & 1 gallon (3.78 liters) can Side-B

10-gallon kit      One 5-gallon (18.9 liters) pail of Side-A and one 5-gallon pail (18.9 liters) pail of Side-B

10-gallon kits are available as a special-order item. Minimum quantities required.

### TECHNICAL DATA

|   |  |
|---|--|
| <b>Coverage Rate</b>                              | 1 gal/100 sq. ft (0.41 l/sqm). Actual coverage may vary depending upon substrate condition and application method. |
| <b>Dry Film Thickness Per Coat</b>                | 14 ± 2mils<br>356 ± 50µ  |
| <b>Pot Life</b>                                   | 40-45 Minutes@75° (24 ° C), 50% R.H.-Clear   |
| <b>Hardness, ASTM 2240</b>                        | 65± 5 Shore A  |
| <b>Specific Gravity</b>                           | Side A - 1.07 ± 0.1<br>Side B - 1.02 ± 0.1   |
| <b>Tear Resistance, ASTM D-624</b>                | 400± 20 pli<br>70.1 ± 8.8 kN/m   |
| <b>Tensile Strength, ASTM D-412</b>               | 3500 ± 300 psi<br>24.1 ± 2.1 MPa   |
| <b>Ultimate Elongation, ASTM 412</b>              | 50% ± 10%  |
| <b>Total Solids by Weight, ASTM D-2669</b>        | 90 ± 2%  |
| <b>Total Solids by Volume, ASTM D-2697</b>        | 88 ± 2%  |
| <b>Viscosity</b>                                  | Side-A 200 ± 50cps<br>Side-B 200 ± 50 cps  |
| <b>Volatile Organic Compounds, ASTM D02369-81</b> | 0.83 lb/gal<br>100 gm/liters   |

## SURFACE PREPARATION

**Concrete:** The concrete should be allowed to cure for a minimum of 30 Days. A Concrete Surface Profile of 2-3 (CSP 2-3) is required.

**Wood:** Sand the entire surface to remove any burs or rough spots that may affect the finish of the coatings. Make sure all nail/screw holes and joints are detailed using either RSP Fast Patch or CFFS Fortification Formula prior to coating.

**Metals:** Aluminum, Galvanized Steel, Non-Ferrous Metals All metals must be prepared to a near white surface that is equivalent to SSPC 10 or NACE 2. Appropriate epoxy primers required. Consult with your Alta Paints and Coatings product representative for job specific recommendations.

**Existing Cured Coatings:** A 4"x4" test application is recommended to determine proper adhesion. All existing coatings must be abraded and cleaned before application of test patch to determine if required adhesion standards can be achieved.

**Primer Requirements:** Please consult your product supplier for job specific recommendations.

## MIXING

The volume mixing ratio is 1-part Side-A liquid to 1-part Side-B liquid.

Side A and Side-B of Alta QC Polyaspartic 6500 Series must each be mixed thoroughly with separate paddle mixers to achieve a homogeneous liquid (minimum of 2 minutes per pail) prior to combining the two components

Once both sides are independently mixed independently combine the two components in a calibrated container using a ratio of 1A:1B. Blend together with a paddle mixer for a minimum of 2 minutes ensuring the two components are thoroughly combined.

Note: Once the components are thoroughly combined Alta QC Polyaspartic 6500 Series can be thinned up to 10% by volume with Xylene.

## APPLICATION

Material temperatures should be a minimum of 50°F (10°C) prior to use.

The optimal surface temperature range for Alta QC Polyaspartic 6500 Series is greater than 35°F (1.67°C) and less than 90 ° F (32.22 °C) and at least 5°F (-15 °C) above the dewpoint. Reaction time of combined components will shorten upon exposure to air.

Alta QC Polyaspartic 6500 Series may be applied down to a low temperature of 25°F. It is important to note that low temperature applications may negatively impact the products' physical properties by significantly increasing cure times and affecting gloss levels.

Alta QC Polyaspartic 6500 Series should be applied using a notched trowel, squeegee or an adhesive phenolic resin core roller at a coverage rate of 1 gallon per 100 sq. ft, achieving a theoretical dry film base of 14 mils. Actual coverage rates per gallon can vary greatly, and are highly dependent upon substrate condition, application method and desired performance level of the system being installed. Consult with your Alta Paints and Coatings Technical Service Representative prior to application for project specific consultation and specification.

Recommended surface temperature should be greater than 50°F (10°C) and at least 5°F above the dewpoint. Reaction time of combined components will shorten upon exposure to air.

NOTE: Only mix an appropriate amount of material that can be applied within product pot-life and your application window. Do not overwork the material. Polyaspartic exhibit application properties similar to epoxies. Overworking of the coating during application can cause legs in the film. Heavier applications may result in a longer curing process. Apply Alta QC Polyaspartic 6500 Series evenly over the entire substrate. When applied by roller extra care should be taken not to introduce air bubbles into film.

## CLEANUP

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

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## CURING

At 75°F (24°C) and 50% relative humidity, allow each coat to cure 2-4 hours.

Allow 6 hours before permitting light pedestrian traffic and at least 24-48 hours before permitting heavy pedestrian traffic on to the finished surface.

Uncured Alta 6500 QC Polyaspartic is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. If more than 12 hours have passed after applying clear coat of Alta QC Polyaspartic, then re-primer surface with appropriate primer and apply a coat of Alta QC Pigmented Polyaspartic. If clear coat is required, then clear coat should be applied only after pigmented coat. If clear coat is applied after primer, primer may become yellowish with exposure to light and surface will not look aesthetically pleasing.

Low temperature and/or humidity extend the cure time.

## STORAGE

Alta 6500 Series QC Polyaspartic has a shelf life of 1 year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

### Limitations

The following conditions must not be coated with Alta Paints and Coatings' deck coatings or systems: split slabs, buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, magnesite, and non-structural lightweight concrete. On grade slabs may receive Alta Paints and Coatings' system coatings provided a moisture-vapor transmission test is first performed. Please contact Alta's technical department with the results.

With regard to coating asphalt surfaces, please contact Alta's technical department.

Surfaces must be dry, clean, and free of foreign matter. Clear coating may turn opaque and cloudy due to moisture penetration, especially in exterior applications. Surface may be slippery when wet. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance.

### Warning

**This product contains Isocyanates and Solvents**

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