



Paints & Coatings

## ALTA 5500 QC Polyaspartic

Product Series #5500

### PRODUCTION DESCRIPTION

Alta QC Polyaspartic 5500 Series is an environmentally friendly, VOC Compliant coating formulated to be installed on a wide variety of substrates. Alta QC Polyaspartic has outstanding adhesion, UV resistance, durability, chemical and corrosion resistance. Its rapid cure properties allow for a quick return to service.

### ADVANTAGES

- » Quick Cure
- » UV Stable Top Coat
- » Wide Range of Application Temperatures
- » High Gloss – Superior Gloss Retention
- » 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
- » Midway Gray
- » Sand Beige

### 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 356 ± 50µ
<b>Pot Life</b>	25-30 Minutes@75° (24 ° C), 50% R.H.-Clear 45-60 Minutes@75° (24 ° C), 50% R.H.-Pigmented
<b>Hardness, ASTM 2240</b>	65± 5 Shore A
<b>Tear Resistance, ASTM D-624</b>	400± 50 pli 70.1 ± 8.8 kN/m
<b>Tensile Strength, ASTM D-412</b>	3500 ± 300 psi 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 Side-B 200 ± 50 cps
<b>Volatile Organic Compounds, ASTM D02369-81</b>	0.83 lb/gal 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 5500 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 5500 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 5500 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 5500 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 5500 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 5500 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.

**Disclaimer:** All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Polycoat Products makes no claim that these tests or any other tests, accurately represent all environments.

## 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 5500 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 5500 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**

**Disclaimer:** All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and the manufacturer makes no claim that these tests or any other tests, accurately represent all environments

**Disclaimer:** All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Polycoat Products makes no claim that these tests or any other tests, accurately represent all environments.