



ALTERRA™ HIGH FRICTION SURFACING TREATMENT

Description ALTERRA™ is a 100% solids, 2 component, polymer resin binder designed to provide a durable driving surface with sustained friction resistance when used in conjunction with specified aggregates. ALTERRA™ may be applied on concrete, asphalt, steel, FRP composite and timber surfaces and is suitable for pavement, bridge decks, bike paths and areas where high friction is required or desired. Use with colored aggregates for color coded demarkation.

Use May be used as a resin binder layer for single or multiple layer broadcast aggregate system on variety of substrates as a High Friction Surfacing Treatment. May also be used as slurry or polymer concrete in varying thickness depending on use and exposure.

Benefits Provides excellent skid resistance when used with specified aggregates
 Excellent adhesion to concrete, steel , asphalt, FRP composites
 Adheres to aggregates for extended periods, providing skid resistance
 High elongation yet tough polymer system to withstand minor movements
 Fast ready for traffic times

Data*

Property	Value	Test Method
Percent Solids	100%	
Viscosity (mixed)	<2500 cps	ASTM D 2393
Gel Time (100 Grams)	14-18 Min.	ASTM C 884
Adhesion @ 24 Hrs	250 psi	ACI 503R
Tensile Strength, 7 Days	2800-3000 psi	ASTM D 638
Tensile Elongation, 7 Days	35 +/-5 %	ASTM D 638
Water Absorption @ 24 Hrs	.5% Max.	ASTM D 570
Compressive Strength	> 1000 psi	3 Hrs ASTM C 109
Compressive Strength	> 5000 psi	ASTM C 109
Cure Rate	2 Hrs	ASTM D 1640
Hardness Shore D	65-70	ASTM D 2240

* Samples cured at 75 °F. Results can vary and depend on mixing method, equipment, curing conditions, test equipment, sample handling, sample conditioning, consistency and technicians.

Packaging Mix Ratio: 1 Volume Part A: 1 Volume Part B
 5 Gallon pails: 10 gallon unit
 50 Gallon drum: 100 Gallon unit
 250 Gallon IBC also available

Limited Warranty: P3 warrants this product to be free of any defects resulting from its design and manufacturing. All warranty claims shall be submitted in writing to P3 immediately upon discovery or before expiration of shelf life of product. Remedy is limited to replacement of materials purchased. P3 disavows any other representation or warranty, express or implied, or liability relating to the condition or use of the product and in no event shall P3 be liable to user or any third party for any direct or indirect consequential or incidental damages.

To Apply

Surface Concrete - Clean to remove contaminants. Remove loose debris by vacuum or blow with dry compressed air. Remove curing compound and laitance on new concrete.
Asphalt - Use power broom and dry compressed air to remove all contamination.
Steel - Abrasive shot or sand blast to SSPC SP-10. Apply before flash rust appears.
FRP - Consult P3 for details

Patching Patching systems shall be free of Magnesium Phosphate. Care should be taken when using high early strength systems and adequate curing should be allowed.

Mixing **Manual:** Measure the two components separately; Part A and Part B according to mix ratio by volume (1A:1B) in containers free of moisture, debris, solvents or any contaminants. Pour into a clean mixing container, one component at a time, thoroughly mix ensuring no unmixed material remains. Time of mixing will vary with batch size and temperatures. It is not recommended to mix more than 10 mixed Gallons at any one time. Working time is reduced due to exotherm. Pour immediately on surface and spread using roller or squeegee. Broadcast aggregate. Wear appropriate Protective Equipment while handling.
Mechanical: Volumetric, positive displacement measuring, mixing and dispensing equipment may be used as approved by P3 as a manufacturer or as provided by P3. Equipment shall be capable of conditioning components stored in independent tanks and consistently measure, mix and dispense liquid to be spread on surface manually or mechanically. Broadcast aggregate before mixed material begins to get tacky.

For Slurry or Polymer concrete mix design and instructions please contact P3

Aggregate Choice of aggregate shall be determined by desired aesthetics, wear, polish and fracture resistance. Recommended aggregates may be angular basalt, granite, flint and bauxite. Angularity will vary with intended use. Selected aggregate shall be washed, dried and free of moisture when broadcast or mixed into the liquid polymer. Consult P3 for specifications.

Caution Part A: Contains Epoxy Resin. Skin and eye irritant. Prolonged contact can cause sensitization.
Part B: Contains Amines. Skin and eye irritant. Can cause severe burns when in contact with skin and eyes. Use proper clothing and respirators. Consult Safety Data Sheet for details.

First Aid Remove contaminated clothing. Wash thoroughly with water and soap. If contact with eyes, irrigate with water for at least 15 minutes and consult physician. Remove to ventilated area. If ingested, do not induce vomit, seek medical attention immediately. Consult Safety Data Sheet for details.

Keep out of reach of children. Not for internal consumption. For industrial use only. Keep containers properly closed.

All information and recommendations provided by P3 are in good faith based on P3 current knowledge and experience of its products when handled properly and according to P3 instructions. P3 assumes no responsibility of factors outside of its control that would impact result and behavior of P3 products. User of P3 products must test these products for suitability for the intended application and purpose. P3 reserves the right to change properties of its products without notice. Please read P3 product Safety Data Sheet entirely and thoroughly prior to using P3 products. It is intended for your safety. Use proper Personal Protective Equipment per Safety Data Sheet. Per EPA Method 24 40 CFR Appendix A, VOC<150 mg/L
