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**DESCRIPTION:**

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Premera HLT is a unique surface treatment for concrete consisting of specialized reactive chemicals in a colloidal silica matrix. HLT can be used as a concrete treatment to penetrate into concrete and creates a moisture vapor barrier within concrete by reacting with and sealing pores and capillaries, eliminating vapor transmission and solving hydrostatic pressure challenges. HLT is also a complementary pre-primer treatment for Premera's sol-gel based products. When used in combination with Premera FP1 Fusion Primer, up to 25 lbs of moisture vapor can be withstood, effectively eliminating adhesion issues caused by moisture vapor.

When applied to concrete or any pozzolanic material, Premera HLT penetrates to seal, densify and thereby harden cementitious surfaces. Premera HLT is formulated to penetrate and block capillaries by reacting with free calcium hydrates to form an insoluble, permanent barrier. It effectively eliminates efflorescence, improves water resistance, water repellency, and surface properties of cementitious materials.

Premera HLT is recommended for use as a pre-priming surface treatment on floorings, liners in immersion application, and adhered waterproofing membranes - including structures under hydrostatic pressure. Premera HLT may be used as a standalone surface treatment in certain applications.

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**FEATURES:**

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- Environmentally friendly with zero VOC
- Reduces the porosity and increases durability of the concrete surface
- Prevents efflorescence from occurring
- Improves concrete quality, durability, liquid repellency
- Reduces risk of moisture out-gassing, pin-holing, and blisters in top coats

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**TYPICAL USES:**

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- As a moisture vapor barrier under coatings
- As a water resistant surface treatment for concrete and masonry
- As a sealer for micro leaks in floors, walls and basements
- As a moisture barrier to protect different types of flooring and floor coverings
- As part of liquid and gas barrier used in containment applications with concrete structures
- As part of a rehabilitation plan for deteriorated and contaminated concrete
- Waterproofing wet, damp or below grade concrete

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**COLORS:**

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Cloudy liquid dries to clear

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**PACKAGING:**

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1-gallon (3.78 liter)  
5-gallon (19-liter) plastic pails  
50-gallon (190-liter) drums  
275-gallon (1045 liter) totes.

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**COVERAGE:**

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Premera HLT may be applied at any rate dependent on ambient temperature, surface porosity, and absorption rate of liquids into the concrete.

Recommended application rate on typical concrete is 10 ft<sup>2</sup>/gal to 200 ft<sup>2</sup>/gal (4 m<sup>2</sup>/l to 5 m<sup>2</sup>/l) for broom finish or 200 ft<sup>2</sup>/gal to 250 ft<sup>2</sup>/gal (5 m<sup>2</sup>/l to 6 m<sup>2</sup>/l) for burnished finish.

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**STORAGE:**

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Twelve months in factory delivered, unopened drums. Store on pallets and keep away from extreme heat, freezing, and moisture.

<b>TECHNICAL DATA (All values @ 77 °F / 25 °C)</b>	<b>US</b>	<b>Metric</b>
Solids by volume (ASTM D2697)	10%	10%
Volatile organic compounds (ASTM D2369)	0 lb./gal	0 gm/ lit
Theoretical coverage	100-250 ft <sup>2</sup> /gal	4-5 m <sup>2</sup> / lit
Specific Gravity of material (ASTM D792)	8.76 lbs./gal	1.05 kg/ liter
Shelf life @ 77 °F / 25 °C	12 Months	12 Months
<b>PROCESSING PROPERTIES (Under standard lab conditions)</b>		
Mix Ratio V/V	N/A	
Gel time	N/A	
Tack free time (Temperature, humidity and wind dependent)	4 hours	
Post cure time (Temperature, humidity and wind dependent)	24 hours	
<i>Properties and values are highly dependent on equipment, spray gun, temperature, pressure and related parameters. Variations are possible and expected.</i>		

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**MIXING:**

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Premera HLT shall not be diluted under any circumstances. The product is ready to use.

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**SURFACE PREPARATION:**

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**Concrete:**

The surface of a concrete subfloor should be dry, smooth, structurally sound and free of depression, scale, or foreign deposits of any kind. Remove all curing compounds.

Remove any coating, curing compound or surface finish that may interfere with penetration of HLT into the concrete. Place a few drops of water on the surface to test surface porosity. If the water does not absorb immediately, additional surface preparation is required to “open up” the surface by grinding, sweep blasting, or similar technique. In hot climates, slightly dampen the surface with a mist coat of water. Apply the Premera HLT at the recommended rate with a low pressure spray overlapping by 50% on each pass. Apply additional coats until rejection is achieved, waiting at least 5 minutes in between each coat.

**Used with FP1 Fusion Primer:**

Premera HLT can be used in conjunction with FP1 Fusion Primer to both create a moisture vapor barrier and allow top coats to chemically fuse to concrete, all without any substrate profile or grinding whatsoever. In such cases where hydrostatic pressure must be addressed, refer to application instructions above for application of HLT to concrete, and then wait 4 hours before applying FP1 Fusion Primer. Follow FP1 Fusion Primer application instructions as normal, refer to the Premera FP1 Fusion Primer TDS for detailed application instructions.

**APPLICATION:**

**HORIZONTAL SURFACES** - On broom finished, troweled, ground or non-polished concrete, spray at least two coats wet on wet, 3-4 mils WFT each. Apply with a pump sprayer, applying with a 50% overlap, keeping a wet edge while applying. Observe how the concrete absorbs the first coat for at least 5 minutes to assess concrete porosity. Apply additional coats until concrete is saturated and additional coats are rejected. Concrete must be saturated for HLT to work properly. Once fully saturated, HLT must be allowed to cure out for at least 4 hours, or until concrete appears totally dry. After 4 hours or until totally dry, other Premera products may be installed per the application instructions detailed in their respective TDS.

Should HLT be applied to address hydrostatic pressure or moisture vapor issues, and Premera FP1 Fusion Primer is not used prior to top coating, ensure proper surface profile is achieved per the required specifications listed in the manufacturer’s TDS for the relevant top coat. When using HLT with Premera FP1 Fusion Primer, no surface profile is required for adhesion of other coatings on top of the system, provided all application instructions are strictly adhered to for all products used.

**VERTICAL SURFACES** - Ensure surface is free of any dust, debris and other contaminants. Once surface is clean and dry, HLT application may begin. Use an HVLP spray gun set to 25 PSI, with a 1 inch by 8 inch elongated, vertical spray pattern. On broom finished, troweled, or non-polished concrete, spray at least two coats wet on wet, 3-4 mils WFT each at least 3 minutes apart to observe how concrete absorbs HLT. Apply with a 50% overlap and, keeping a wet edge while applying. Observe how the concrete absorbs the first coat to assess porosity of concrete. HLT must be continuously reapplied until concrete rejects additional coats of HLT. Concrete must be fully saturated for HLT to work properly.

**EQUIPMENT CLEAN UP:**

Clean tools and flush out spray equipment with water.

**LIMITATIONS:**

Do not open until ready to use, and store in a sealed container after opening.

**WARNING:**

This product may etch glass or dull shiny aluminum.

Premera HLT overspray and mist should be controlled and confined to the immediate work area, and a face mask and respirator are recommended

Premera HLT is not suitable for use on surfaces contaminated by strong acids. Clean and neutralize these conditions prior to application of Premera HLT.

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**WARRANTIES AND DISCLAIMERS:**

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*Premera Coating Systems, a Texas, USA Corporation warrants that this product shall conform to the technical specifications published in the product literature. The quality and fitness of the product is dependent upon the proper use and application of the product by the applicator. Premera Coating Systems has no role in the application of the finished polymer other than to manufacture and supply its components. It is vital that the person applying this product understands the product and is fully trained and certified in the use of spray equipment and application of Premera Coatings materials. There are no warranties that extend beyond the description on the face of this instrument, except when provided in writing, directly by Premera Coating Systems and executed under seal by a company officer. Standard product warranty for 1 year from manufacture date.*