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**DESCRIPTION:**

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Nukote HLT-Prime (HLT-P) combines three important features into one treatment system: surface activation as a pre-primer, micro-crack sealing with a silica matrix, and water repellency. HLT-P provides heavy duty surface activation via a reactive colloidal silicate. HLT-P promotes coating adhesion to concrete, by cross-linking organic and inorganic macro molecules. The reactive lithium silicate colloid penetrates and binds inside micro cracks to available cement hydrates to seal voids and improve surface micro-profiles. Combined with the silicate water replant, HLT-P provides superior positive and negative pressure water blocking and repellency. HLT-P is formulated to promote aggressive bonding between concrete and Nukote polymer coatings. .

Nukote HLT-P reduces the risk of coating failures due to moisture migration and outgassing by blocking moisture migration through the substrate. Nukote HLT-P is suitable for use as a pre-primer under flooring, liners, and adhered waterproofing membranes - including structures subject to hydrostatic pressure. Consult Nukote for a project specific surface evaluation to assist in selecting the best combination of products and application techniques.

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**FEATURES:**

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- Environmentally friendly with zero VOC
- Improves wet adhesion and stability
- Good wetting properties
- Fast reaction time and matrix formation
- Effective chloride and electrolyte barrier
- Re-alkalizes carbonated concrete
- Suitable for use on old and new substrates
- Reduces risk of moisture out-gassing which can cause pin-holing and blisters in polyurea, polyurethane elastomers, or other polymer top coats

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**TYPICAL USES:**

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- As an adhesion promoter and surface activator under polymeric coatings: polyurea, polyurethane, epoxy
- Ideal for smooth and good quality concrete and beneficial application on older or weathered concrete

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**COLORS:**

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Cloudy liquid dries to clear

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**PACKAGING:**

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

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**COVERAGE:**

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Nukote HLT-P may be applied at any rate depending on ambient temperature, surface porosity, and absorption rate of the concrete.

Recommended application rate on typical concrete is 150 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 conditions

<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	150-200 ft <sup>2</sup> /gal	4-5 m <sup>2</sup> / lit
Specific Gravity of material (ASTM D792)	9.18 lbs./gal	1.1 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, mix chamber temperature, pressure and related parameters. Variations are possible and expected.</i>		

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**MIXING:**

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Nukote HLT-P 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 shall be dry and free of loose bodies, scale, oil, or foreign deposits of any kind. Remove all curing compounds. Abrasive blast, sweep blast or water blast to remove all latent material and expose voids. The surface preparation of concrete should meet and conform to Joint NACE 6/SSPC-SP 13 standards and achieve a concrete surface profile of CSP 3 to CSP 6 as per ICRI Guideline No.03732 for optimum performance.

Remove any coating, curing compound or surface finish that may interfere with HLT-P penetrating into the surface. Place a few drops of water on the surface to test surface porosity. If the water does not absorb immediately, additional surface preparation may be 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.

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**APPLICATION:**

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Apply with low-pressure spray apparatus, brush or flood coat. For optimal performance, the substrate shall be abrasive blasted. The product shall be applied as a thin, uniform film over the entire surface. Apply the Nukote HLT-P at the recommended rate with a low pressure spray overlapping by 50% on each pass. HLT-P shall be applied 12 to 14 hours

after any patch or repair mortars have achieved full cure and at least 7 days after placement of new concrete. The surface may be damp but not wet at the time of application. Complete surface treatment and any applied coatings to Nukote specifications.

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**EQUIPMENT CLEAN UP:**

Immediate and thorough flushing with clean water while material is still wet. Dried material may require sanding or grinding for removal.

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**LIMITATIONS:**

Do not open containers until ready to use and reseal containers after opening.  
HLT-SR is not suitable for use on surfaces contaminated by strong acids. Clean and neutralize these conditions prior to application of HLT-SR

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**WARNING:**

This product may etch glass or dull shiny aluminum.  
Nukote HLT-P overspray and mist should be controlled and confined to the immediate work area, and a face mask and respirator are recommended.  
Nukote HLT-P is not suitable for use on surfaces contaminated by strong acids. Clean and neutralize these conditions prior to application of Nukote HLT-P.

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**WARRANTIES AND DISCLAIMERS:**

*Nukote Coating Systems International, warrants the components of 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 application by the applicator. Nukote Coating Systems has no role in the application of the finished product other than to manufacture and supply the material. It is vital the person applying this product understands the product application and handling requirements and is fully trained and certified in the use of the equipment and application methods. There are no warranties that extend beyond the description on the face of this instrument, except when provided in writing, directly by Nukote Coating Systems International and executed under seal by a company officer.*