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**DESCRIPTION:**

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Nukote HLT-WR is concentrated silane water-repellant sealer for concrete and masonry. It is a silicate-based system providing superior protection for a variety of building materials. Nukote HLT-WR can be used to prevent deterioration arising from permeation of soluble salts and freeze/thaw cycle damage.

Nukote HLT-WR is suitable for use on new and existing concrete surfaces to protect against soiling by imparting hydrophobic surface properties. Nukote HLT-WR is suitable for absorbent substrates, but Nukote HLT-WR is not suitable for polished, ground, or nonabsorbent surfaces. Nukote HLT-WR prolongs the design or service life of building structures by reducing water permeation.

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**FEATURES:**

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- Environmentally friendly with zero VOC
- Significant reduction of water adsorption
- Improves resistance to staining and dusting
- Improves concrete quality, durability, liquid repellency
- Moisture insensitive; Can be applied on damp surfaces (no standing water)
- Improved weather and UV resistance
- Washable, easy to clean
- Lasts for many years
- Permits vapor diffusion
- Suitable for use on old and new substrates

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**TYPICAL USES:**

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- Building facades and civil engineering structures
- Pavers and curbstones
- Landscape elements
- Exposed aggregate elements
- Facade plasters and renders

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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-WR 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 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.

<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)	9.07 lbs./gal	1.09 kg/ liter
Shelf life @ 77 °F /25 °C	24 Months	24 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)	20 minutes	
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>		

#### **MIXING:**

Nukote HLT-WR shall not be diluted under any circumstances. The product is ready to use.

#### **SURFACE PREPARATION:**

Remove any coating, curing compound or surface finish that may interfere with penetration of HLT-WR 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 Nukote HLT-WR at the recommended rate with a low pressure spray overlapping by 50% on each pass. Carry out surface treatment and polyurea application to Nukote specifications.

#### **APPLICATION:**

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. HLT-WR 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.

#### **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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**STORAGE:**

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

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**LIMITATIONS:**

Do not open containers until ready to use and reseal containers after opening.

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**WARNING:**

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

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**WARRANTIES AND DISCLAIMERS:**

*Nukote Coating Systems International, a Nevada, USA LLC 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 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.*