

**Table 1: Performance of *Everseal Brick Block* Water Repellent Emulsion on Various Substrates**

<u>Substrate / % Active Solids</u>	% Water Exclusion <sup>1</sup> vs. Control after 24 hours Immersion	
	<u>ASTM C 642<sup>2</sup></u>	<u>ASTM C 67<sup>3</sup></u>
<b>Alkaline Substrates</b>		
Mortar Cubes		
5% active solids	92	
10% active solids	94.8	
20% active solids	93.9	
Permcon Cement Brick		
5% active solids		63.9
10% active solids		77
20% active solids		82.5
<b>Neutral Substrates</b>		
Belden Belcrest 350 Brick		
5% active solids		80.3
10% active solids		69.8
20% active solids		41.1
Glen Gary Salem Brick		
5% active solids		77.7
10% active solids		48.3
20% active solids		43.3

<sup>1</sup>Calculation is based on weight gain of control.

<sup>2</sup>ASTM C 642 used 50.8-mm x 50.8-mm x 50.8-mm (2-in x 2-in x 2-in) mortar cubes.

<sup>3</sup>ASTM C 67 modified to use one eighth of a brick instead of one half of a brick with 3 specimens instead of 5.

**Table 2: Performance of *Everseal Brick Block* Water Repellent Emulsion versus a Solvent-Based Silane on Mortar Cubes**

<u>2-inch Mortar Cubes</u>	% Water Exclusion vs. Control after 21 days Immersion	
	<u>(NCHRP 244)<sup>1</sup></u>	<u>Penetration, mm</u>
<i>Everseal Brick Seal</i> Dilutable Water Repellent Emulsion,		
40% active solids	74.0	4-5
40% silane in solvent	74.0	2-5

<sup>1</sup>NCHRP 244 (National Cooperative Highway Research Program) was modified to use 50.8-mm (2-inch) mortar cubes instead of 102-mm (4-inch) concrete cubes.

**Table 3: Performance of *Everseal Brick Block* Water Repellent Emulsion – Modified ASTM E-514<sup>1</sup>**

<u>Lightweight Concrete Block %</u>	<u>Reduction in Leak Rate<sup>2</sup></u>	<u>Penetration, mm</u>
<i>Everseal Brick Block</i> Water Repellent Emulsion,		
5% active solids	76	15

<sup>1</sup>Modified ASTM E-514 – 3 blocks were mounted to a chamber and sprayed with water under 50.8 millimeters (2 inches) of water pressure for 4 hours.

<sup>2</sup>Percent reduction in leak rate – treated blocks compared with untreated blocks.