



StarSeal PS Benefits VS. Competitive Materials

<u>Vexcon StarSeal PS</u>	<u>Advantage</u>	<u>Competitive Materials</u>
Smaller Molecule size	Quicker Penetration	Larger Molecule size
Spray on Penetration	No scrubbing required	Scrubbing required
Quicker Reactivity	Smaller particles penetrates deeper and react quicker	Slower Reactivity
Less Material required to Penetrate	Lower product cost per square foot	Large amount of expensive product washed off
More Whitening Resistant	Time line of excess material removal extended	Heavy Whitening possible
Higher Gloss with Polishing	Quick Gloss development	Longer Burnishing required
Complete System StarSeal PS Fixative Star Seal PS Finish Coat	Reduces stains from foods-water repellent topcoat	Not available

WHY SILICATES DON'T CURE CONCRETE

VEXCON, THE ASTM, AND ACI 308R-01 GUIDE TO CURING CONCRETE POSITION ON THE USE OF SILICATES TO CURE CONCRETE PER ASTM-C309, Note 1. Sodium silicate solutions are chemically reactive rather than membrane-forming; therefore, they do not meet the intent of this specification.

1. **Silicates are:** Natural deliquescent – draws water to surface.
2. **Silicates cause:** Uneven drawing of water causes spider cracking.
3. **Silicates cause different reaction products:** Cement uses the water of hydration of silicates to attempt hydration –forms a soft powdery complex.
4. **Silicates:** React quicker with the Calcium on the surface than cement.
5. **Silicates:** **Cannot be demonstrated to reduce water evaporation from surface water, or cure concrete by any ASTM Tests.**