# **Performance Standards**



Improving Where the World Stands

UNTREATED SAMPLE = UT/BLUE

#### ABRASION

Abrasion ASTM C 779—Depth of Wear

SS AquaSeal-Harden™

Abrasion Resistance to Revolving Discs: After 28 days, the SS AquaSeal-Harden sample had an improvement of 33% over an untreated control sample.

#### HARDENING

Hardening of treated sample according to ASTM C39

"Method for Compressive Strength of Cylindrical Concrete Specimens" Samples treated with AquaSeal-Harden register an average of 40% increase in compressive strength over the untreated sample.

# BONDING

Surface Adhesion ASTM D 3359 A 23% increase in adhesion over untreated samples.

# CURING

The u`ntreated sample has 95% greater moisture loss than a sample treated with SealSource AquaSeal-Harden. A trowelled sample treated with AquaSeal-Harden has moisture loss less than 0.55kg/m<sup>2</sup> after 72 hours.

## FRICTION

Friction ASTM C-1028-96

(A higher number represents increased friction) The untreated troweled sample FD 0.710 and the treated sample with SS AquaSeal-Harden FD 0.731

#### CHLORIDE INGRESS

Conducted under the NCHRP No. 244 "Concrete Sealers for Protection of Bridge Structures." When combined with a coat of SealSource HardenX SI, there is a reduction of Chloride ingress of 91% over untreated sample.

#### WATER VAPOR TRANSMISSION

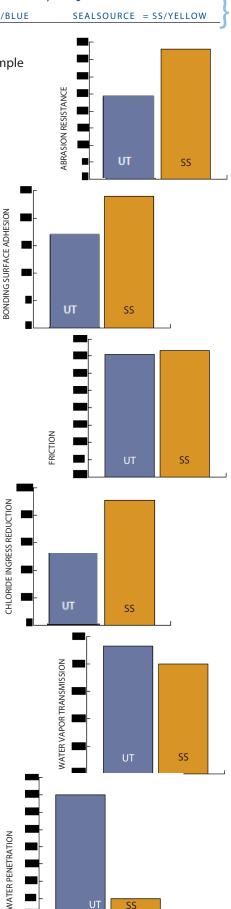
WaterVapor Transmission ASTM E-96-94 These figures are reported in grains/hour per square foot and show reduced vapor transmission. Untreated 1.40, treated 1.20

## WATER PENE TRATION

A 3000 psi steel troweled concrete sample that had been in place for 10 years and a water cylinder were used. The sample was tested through a 30 minute soak-in period. The cylinder is graduated in inches, the figures represent column inches absorbed over the test period.

Untreated 7, SealSource AquaSeal-Harden 1.

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