

Performance Standards



Improving Where the World Stands

SS AquaSeal-Harden™

UNTREATED SAMPLE = UT/BLUE

SEALSOURCE = SS/YELLOW

ABRASION

Abrasion ASTM C 779—Depth of Wear

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 untreated 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/m² 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 PENETRATION

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.

