

Performance Standards

SS Harden X™ SI

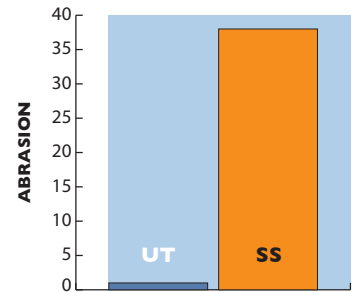
UNTREATED SAMPLE = UT

SEALSOURCE PRODUCT = SS

ABRASION

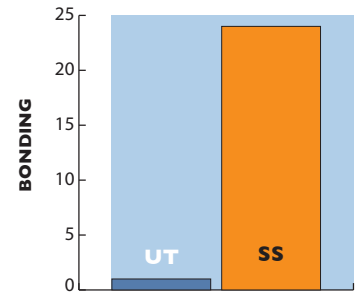
Abrasion ASTM C 779—Depth of Wear

Abrasion Resistance to Revolving Discs: The SS Harden X SI sample had an **improvement of 38%** over an untreated control sample.



CURING

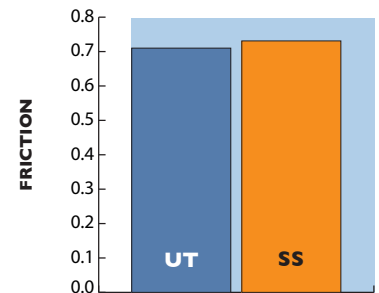
The SS Harden X SI does not meet the standards of the ASTM C 309. Therefore, we recommend using a wet cure or some type of proper cure that does meet the ASTM C 309.



BONDING

Surface Adhesion ASTM D 3359

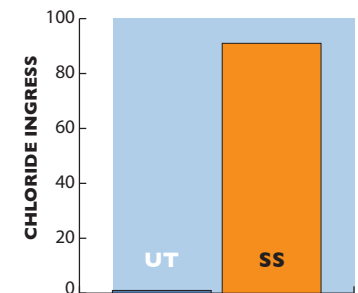
A **23% increase** in adhesion over untreated samples.



FRICTION

Friction ASTM C-1028-96

(A higher number represents increased friction) The untreated sample FD 0.710 and the treated sample with SS Harden X SI FD 0.731.



PERMEABILITY

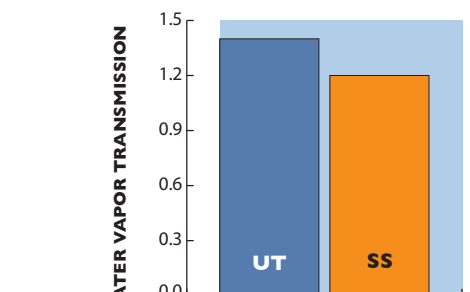
Conducted under the CRD-C 48-73

“Method for Water Permeability of Concrete” showed that the SS Harden X SI **greatly reduced** the permeability of concrete over the control.

CHLORIDE INGRESS

Conducted under the NCHRP No. 244

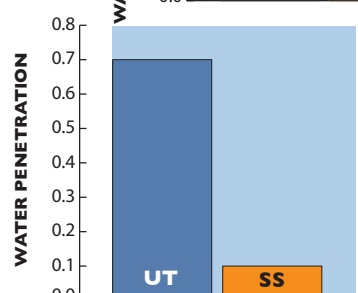
“Concrete Sealers for Protection of Bridge Structures.” For a sealer to meet this standard, it must reduce chloride content by at least 75%. Untreated—0% reduction, **SS Harden X SI—91% reduction.**



WATER VAPOR TRANSMISSION

Water Vapor Transmission ASTM E-96-94

These figures are reported in grains/hour per square foot and show reduced vapor transmission. Untreated 1.40, treated with the SS Harden X SI 1.2



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