

Test Results as Performed by:
Professional Service Industries, Inc.
and Solar Testing Laboratory Inc.

ASTM C-42 Compressive and Flexure Tests.

“The raw untreated cube broke under compression at 3680 PSI. The **DensiCrete**® coated cube broke at 4740 PSI. This is an increase in compressive strength of 1.29 times.” “The raw untreated cube broke under flexure testing at 423 PSI. The **DensiCrete**® coated cubes broke at 543 PSI. This is an increase in flexure strength of 1.28 times.”

AASHTO T-260 Chloride Ion Evacuation Test

DensiCrete® evacuated over 50% of the chloride ions with an application of only 1.5 coats. A control sample of concrete was subjected to a chloride ion bath for 60 days where it achieved a level of 7.04 pounds of chloride per cubic yard. 42 days after the treatment with **DensiCrete**® the chloride was reduced to 3.50 pounds per cubic yard.

ASTM C-42 Testing of High Strength Concrete Cube Specimens.

“The raw untreated cube broke under compression at 6120 PSI. The single surface **DensiCrete**® coated cube broke at 8060 PSI. This is an increase in compressive strength of 1.32 times.”

AASHTO T-259 Chloride Ion Penetration Test

Uncut concrete samples were treated with **DensiCrete**® and subjected to chloride ion solution for a period of 90 days. Average absorbed chloride ion was 1.85 lb. per cubic yard of concrete. The control group averaged 28.85 lb. per cubic yard.

DensiCrete® prevented chloride ion penetration from exceeding 2 lb. per cubic yard, the point at which the chlorides would become reactive within the concrete matrix.

DensiCrete® is an approved product by the

Commonwealth of Pennsylvania, Department of Transportation for listing in Bulletin No. 15, **Approved Construction Materials.**

ASTM C-666 Freeze/Thaw Test for DensiCrete® Treated Concrete.

“The six raw concrete specimens had test compressive strength of 4200 PSI. 3 of the 6 rectangles were treated with two coats of **DensiCrete**®. All specimens were subjected to 300 Freeze/thaw cycles as required by the ASTM C-666. Examination of the untreated specimens showed that they had completely deteriorated in sand-like particles with raw aggregate separated from the original concrete casting. The untreated specimens were no longer recognizable. Examination of the specimens treated with **DensiCrete**® showed no visible cracking, powdering, hairline cracking, or spalling. In fact, the treated rectangles appeared to be in their original pristine condition, with the freeze/thaw cycles having no effect whatsoever on the integrity of the concrete matrix.”

Carbonation Test

PSI designed a test to approximate a ten year carbonation exposure rate that would be found in major US metropolitan urban areas. Untreated concrete specimens had carbonation penetration of .57 (57/100) and .63 (63/100) inches. Both of the **DensiCrete**® treated specimens had zero (0) carbonation penetration as determined by microscopic examination in accordance with ASTM C-856.

TEST RESULTS AVAILABLE UPON REQUEST



WICKTEK INC.
Manufacturer of DensiCrete

DensiCrete®
since 1992

**STRENGTHENS,
WATERPROOFS,
CLEANSES, AND
PRESERVES
CONCRETE**

**ENVIRONMENTALLY
FRIENDLY**

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PRODUCT DESCRIPTION

DensiCrete® is a silicate in water and is an alkali activated chemical penetrating masonry sealer. It reacts with free alkali in existing masonry, evacuates foreign materials, forms an internal, permanent seal and water barrier, strengthening the matrix while dustproofing the surface.

DensiCrete® USES

DensiCrete® can be applied to any cementitious surface, concrete, block stucco brick, terrazzo, etc.

DensiCrete® can be used above, below or on grade as a slab hardener, dustproofer and/or waterproofing agent and is also effective on limestone.

MANUFACTURER'S GUARANTEE:

DensiCrete® is guaranteed to perform as represented when used as directed. In the event the purchaser is not satisfied, manufacturer will furnish without charge sufficient quantity for another application.

CAUTION:

Do not allow to remain on glass, painted or metal surfaces as scratching will occur. If the product is allowed to dry in a puddle, that area may become slippery when wet.

DensiCrete® ADVANTAGES

- * Strengthens by densification.
- * Evacuates existing and retards future penetration of chlorides, grease, oil and acids.
- * Increases both compressive and flexural strength.
- * Outlasts and out performs all other sealants.
- * Holds a hydrostatic head.
- * Waterproofs.
- * Makes concrete freeze/thaw resistant.
- * Retards pitting, dusting, and rutting.
- * Permanently densifies and hardens cementitious surfaces.
- * Makes concrete resistant to carbonation and chloride intrusion.
- * Zero VOC (Volatile Organic Compounds).
- * Non-Toxic.

SPECIFICATIONS TECHNICAL DETAIL/PROPERTIES

Diluent	None
Freeze Temp	32 F
Freeze Harm	None
Boiling Point	230 F
Coverage/Gallon	150 sq. ft.
Shelf Life	60 Months
Solvent for Clean-up	Water
Color: Solution	Opaque
Applied	None
Odor	Negligible
Toxicity	None
Fumes (during Treatment)	None
Organic Properties	Negligible
Environmental Hazards	None
Polymerized Content	Excellent

APPLICATION DIRECTIONS:

DensiCrete® may be applied to any masonry surface in one or more coats, depending on porosity.

DensiCrete® may be brushed, rolled, or sprayed.

See Application Specs. for detailed information.

DensiCrete®
was formerly known as PermaCrete