

LITHOCHROME® Color Hardener **ADVANTAGE**

LITHOCHROME Color Hardener provides *more coverage with less product* than competing color hardeners.

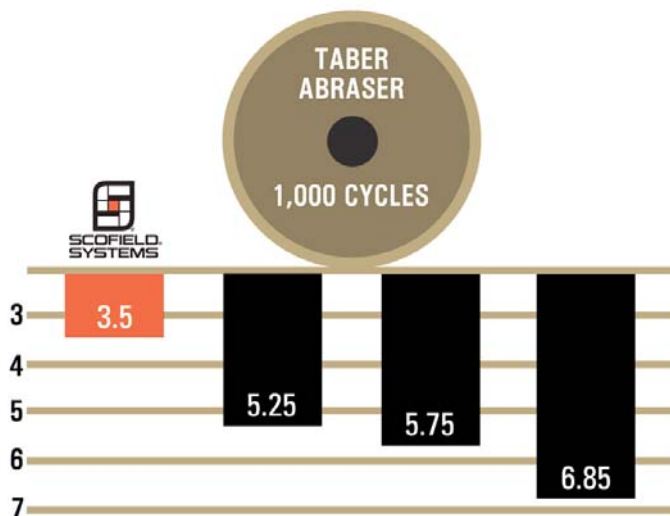
The superior formulation is denser than competing color hardeners, resulting in approximately 75% more thickness when using LITHOCHROME Color Hardener at the same coverage rate.

Independent test results confirm the advantages of LITHOCHROME Color Hardener:

■ PROVEN SUPERIOR ABRASION RESISTANCE

Based on test results, LITHOCHROME Color Hardener dramatically improves the abrasion resistance of concrete as compared to a control concrete of the same base composition finished and cured in a similar manner.

The recommended application rate of LITHOCHROME Color Hardener provided **over 34 times the abrasion resistance** on a depth of wear basis as compared to the control. A higher application demonstrated over 100 times the control's performance.



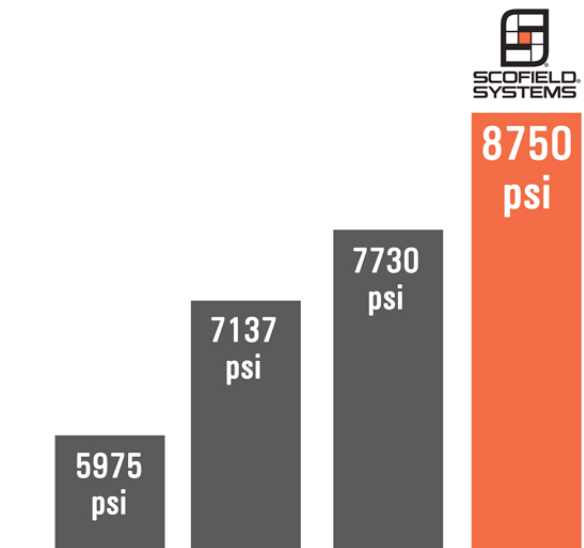
Mass loss in grams vs. competing color hardeners

Based on Taber Abrasion testing, LITHOCHROME Color Hardener is significantly more abrasion resistant than competing color hardeners. The superior abrasion resistance is due to selected sands and cement content.

■ PROVEN HIGHER COMPRESSIVE STRENGTH

The compressive strength of a material is that value of uniaxial compressive stress reached when the material fails completely. The compressive strength is usually obtained experimentally by means of a compressive test.

Based on a 2" x 2" cube compressive test, LITHOCHROME Color Hardener provided superior compressive strength after 31 days over competing color hardener products.

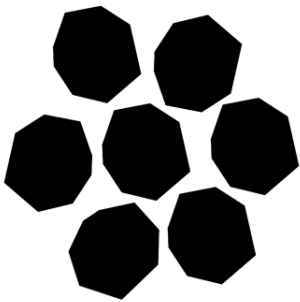


31 day compressive strength vs. competing color hardeners

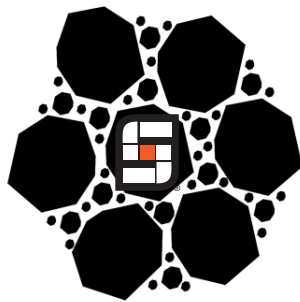
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■ BETTER COVERAGE RATES RESULT IN REDUCED INSTALLATION COSTS

By using properly graded aggregates in our color hardener we are able to extend our surface coverage rates. Most manufacturers recommend using 60 pounds per every 100 square feet. Our color hardener recommendation is for 50 pounds per every 100 square feet. For this reason we have gone to 50-pound packaging for convenience and to help reduce the freight costs of transporting material. The reduced weight per package also helps to reduce the likelihood of employee injuries on site.



Typical aggregate size distribution



Gap-graded or "well-graded" aggregates reduce voids and increase strength

LITHOCHROME Color Hardener is manufactured with well-graded aggregates resulting in better suspension at the surface of the concrete in its plastic state, allowing for complete coverage using less material.

■ BETTER COLOR OPACITY DUE TO WELL-SELECTED AGGREGATES AND PIGMENTS

Manufacturers are faced with raw material drifts in color and different colors of sand indigenous to the location of the manufacturing facility. Providing consistent gradation and color for each new batch presents a challenge, but ensures that large jobs over a period of time look the same from beginning to end.

LITHOCHROME Color Hardener is manufactured with specific color-selected aggregates for the most consistent coverage possible.

