THE ASHFORD FORMULA

PERFORMANCE CRITERIA

Abrasion

ASTM C 779 - Depth of Wear
Abrasion Resistance to Revolving Disks:
An improvement of 32.5% over untreated samples after thirty minutes.

Bonding

ASTM D 3359 – Surface Adhesion
Adhesion of Coatings:
For epoxy, a 22% increase in adhesion over untreated samples. No change in adhesion for polyurethane.

Curing

Moisture loss during the critical initial twenty-four hour period was determined on treated and untreated samples in a controlled environment cabinet:
Untreated samples registered a 93% greater moisture loss over treated samples.

Hardening

ASTM C39 – Compressive Strength
After seven days:
An increase of 40% over untreated samples.
After twenty-eight days:
An increase of 38% over untreated samples.

ASTM C 805 – Rebound Number
Impact resistance by Schmidt hammer:
An increase of 13.3% over untreated samples.

Permeability

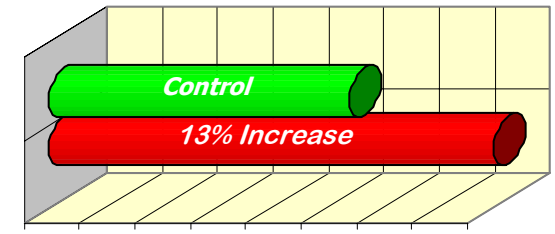
SEEPAGE RATE
Using a 7-foot (2.13 meter) head of water on a 4.91 square inch (124.71 mm) area treated with The Ashford Formula, only allowed a rate of .00073 oz. *(0.022cc) per hour.* After several days, the sample became damp, but no local seepage was observed.

Friction

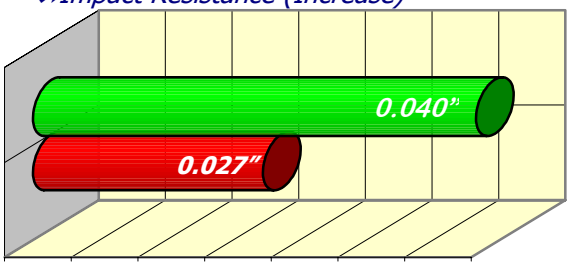
ASTM C 1028 – Friction
The coefficient of friction on steel-troweled samples treated with The Ashford Formula versus the reference tile (A higher ratio represents a reduction in slippage):
Dry, .86 vs. .71, and wet, .69 vs. .47.

Weathering

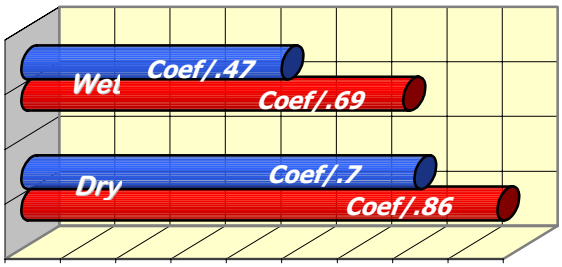
ASTM G 23 – Light Exposure Degradation
Exposure to ultra violet light and water:
No evidence of adverse effects on the samples treated with The Ashford Formula.



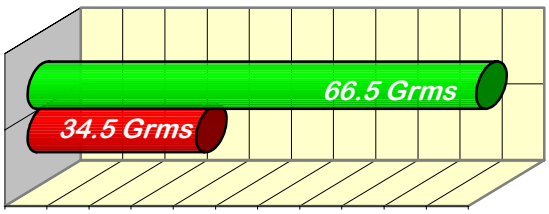
↗Impact Resistance (Increase)



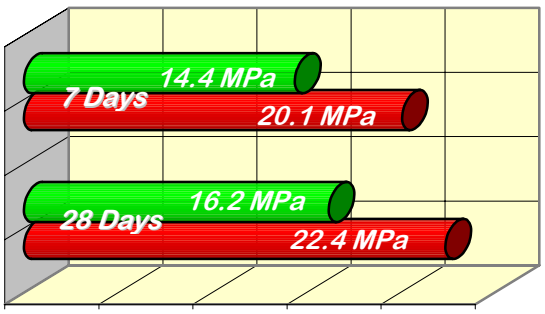
↗Abrasion Resistance (Depth of Wear)



↗Coefficient of Friction



↗Moisture Loss (After 24 Hours)



Reference Tile ←Legend→ **Untreated Sample** ←Legend→ **Treated Sample**

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This technical information is provided as a general performance profile for evaluating the appropriate use of The Ashford Formula. Independent laboratories obtained the test performance results under controlled environments. Curecrete Distribution, Inc. makes no claim that these tests, or any other tests, accurately represent actual design and/or usage environments