

## Rating Table

(in descending order of color change - after 18 months of severe exposure )

Stain Name	Overall Appearance	Measured Color Change*	Number Coats, per Manufacturer
Sashco Transformation Stain™	Excellent	2.822	2 Coats
Sikkens Cetol® 1 & 23	Excellent	2.932	3 Coats
Permachink Lifeline Ultra™	Good	10.931	2 Coats
Superdeck® Trans Exterior	Very Poor	11.910	2 Coats
Velvit CDF™	Poor	13.421	2 Coats
Men-Wood™	Poor	14.202	2 Coats
Wood Guard®	Poor	17.207	2 Coats
Defy Epoxy Fortified Wood Stain®	Very Poor	19.924	2 Coats
ABR X-100 Natural Seal®	Very Poor	20.168	2 Coats
Continental WeatherSeal™	Poor	20.174	2 Coats
Weatherall UV Guard® Exterior Wood Finish	Poor	26.928	3 Coats
Flood CWF®	Very Poor	22.111	2 Coats
TimberTek Pro UV®	Very Poor	26.928	2 Coats
TWP®	Very Poor	27.880	2 Coats
Wood RX®	Very Poor	30.044	1 Coat
Cabot TimberJack®	Very Poor	33.103	2 Coats
In-Wood®	Very Poor	37.520	2 Coats

\* Typical averages of four separate measurements per panel. The panels shown and the data presented are representative of 16 replicates of each competitive stain comparison - far more than needed to verify our reported results.

**Note:** All Stains mentioned in this study own their respective trademarks. Readers are invited to conduct their own studies to verify the results presented in this document. Sashco believes these results are accurate, but independent verification is encouraged.

For more information on Transformation Stain and other Sashco products, visit our website at [www.sashco.com](http://www.sashco.com) or call us 1-800-767-5656.

*Sikkens Cetol® 1 and Cetol® 23 Plus are registered trademarks of Sikkens*  
*Permachink Lifeline Ultra-2™, Lifeline Exterior™, Lifeline Advance™ and Life Interior™ are trademarks owned by Permachink*  
*Superdeck® Trans Exterior is a registered trademark of Duckback Products • Velvit CDF™ is a trademark owned by Velvit Product Company*  
*Men-Wood® is a registered trademark of Menco Corporation • Wood Guard® is a registered trademark of IBC Manufacturing Company*  
*Defy Epoxy Fortified Wood Stain® is a registered trademark of SaverSystems*  
*ABR X-100 Natural Seal® is a registered trademark of ABR Products*  
*Continental WeatherSeal™ is a trademark owned by The Continental Products Company*  
*Weatherall UV Guard® Exterior Wood Finish is a registered trademark of Weatherall*  
*Flood CWF®-UV5, CWF-UV® Penetrating Wood Finish is a registered trademark of The Flood Company*  
*TimberTek Pro UV is a registered trademark of Timber Pro Coatings - The Heartwood Corporation*  
*TWP® is a registered trademark of AMTECO, Inc. • Wood RX® is a registered trademark of Inseco, Inc.*  
*Cabot TimberJack® Log and Timberframe Finish is a registered trademark of Cabot*  
*In-Wood® is a registered trademark of United Coatings*



10300 E. 107th Place • Brighton, CO 80601 • 1-800-767-5656 • [www.sashco.com](http://www.sashco.com)

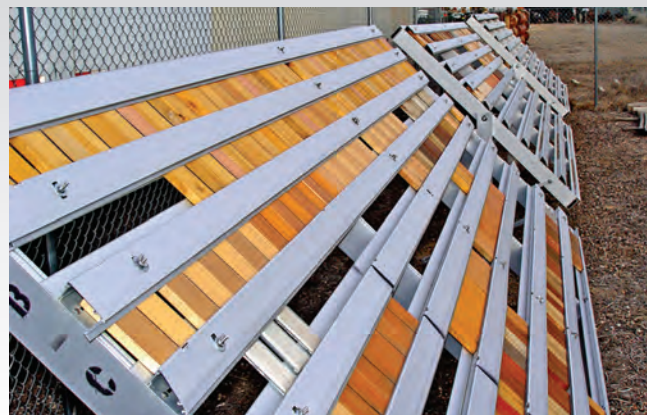
TRS CMPR 08-05

# Transformation

*Restore What Nature Destroyed*

## Transformation vs. Competitive Stains Exposure Report

### How the testing was conducted



Denver Stain Panel Exposure Racks

Pine panels, 6' x 6', were coated on one half with Transformation Stain and the other half with competitive stains, with all the stains being applied in strict accordance to the published recommendations. The panels were placed in exposure racks in Denver, CO at a 45° angle, facing due south. By placing the panels at a 45°, instead of vertically, this placement accelerates weathering and is a much more severe test set-up. For those of you unfamiliar with Denver's mile-high climate, it's a combination of intense UV rays, winter blizzards with temperatures well below freezing, and

extreme summer temperatures of 90°+; so these panels were exposed to brutal weather conditions.

The panels were then clamped into racks under an aluminum cover, mostly shielding the upper portions of the panels from the weather, so that the original appearance of the stains is generally preserved. The lower portions of the panels were fully exposed for 18 months to the elements.

### The scientific measurement of the results

For those of you who like to see the numbers, we scientifically measured the color changes that occurred on the panels using a Spectrophotometer. This instrument measures color and the lightness/darkness of sealants, coatings and other surfaces. We used the Spectrophotometer to measure the color change on each stain panel from the protected, un-weathered panel portion to the fully exposed, weathered portion. This measurement provides numerical comparisons on how each stain darkens and degrades after severe weathering. This numerical measurement is called a delta-E, and, basically, higher numbers indicated poorer stain performance. The delta-E is shown on each panel and in the chart at the end of the report.

# The Visible Results

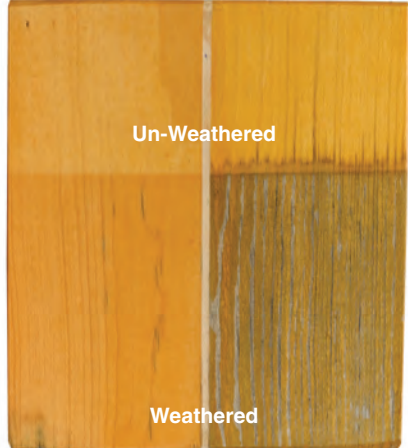
Photos of each panel in the study - the visual appearance of each speaks for itself.

**Transformation**  
Natural



Color Change  
Delta E = 4.689

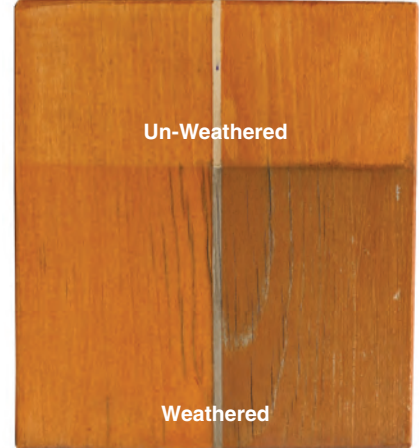
**ABR X-100**  
Cedar Tone Gold



Color Change  
Delta E = 20.168

**Transformation**  
Red Tone Light

**Cont'I WeatherSeal**  
Cabin Brown



Color Change  
Delta E = 5.009

**Transformation**  
Brown Tone Dark



Color Change  
Delta E = 1.501

**Transformation**  
Natural



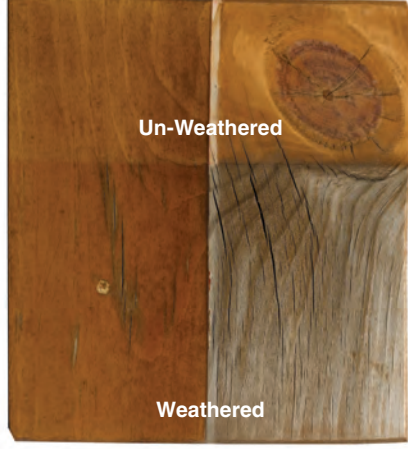
Color Change  
Delta E = 3.454

**Transformation**  
Red Tone Medium



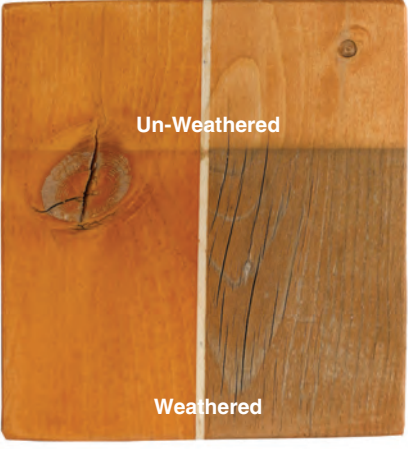
Color Change  
Delta E = 1.068

**Transformation**  
Brown Tone Dark



Color Change  
Delta E = 5.531

**Defy**  
Teton Bronze



Color Change  
Delta E = 19.924

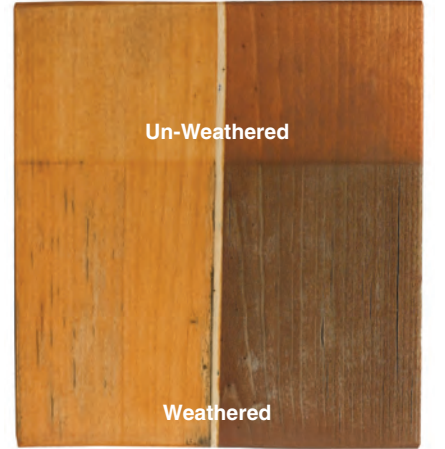
**Transformation**  
Red Tone Medium

**In-Wood**  
Natural



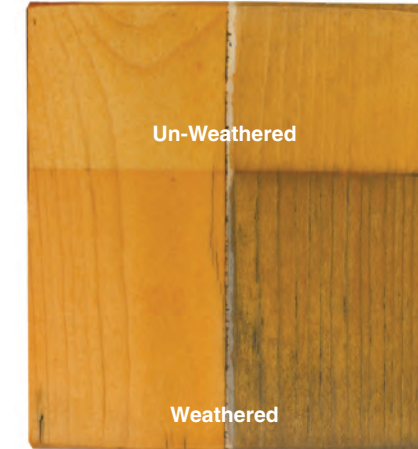
Color Change  
Delta E = 4.764

**Transformation**  
Red Tone Medium



Color Change  
Delta E = 3.205

**Transformation**  
Red Tone Light



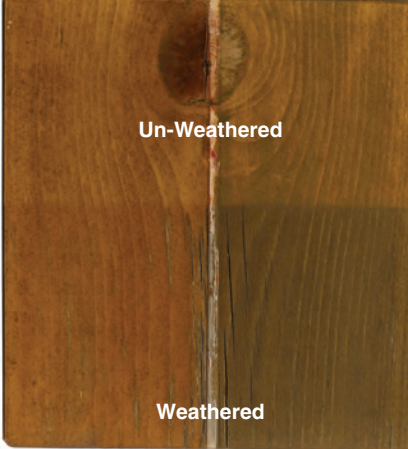
Color Change  
Delta E = 6.178

**Transformation**  
Red Tone Medium



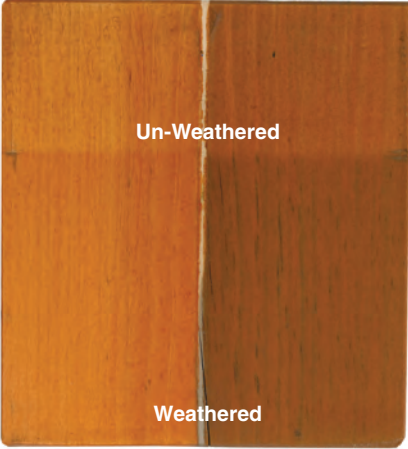
Color Change  
Delta E = 2.373

**Transformation**  
Brown Tone Dark



Color Change  
Delta E = 4.220

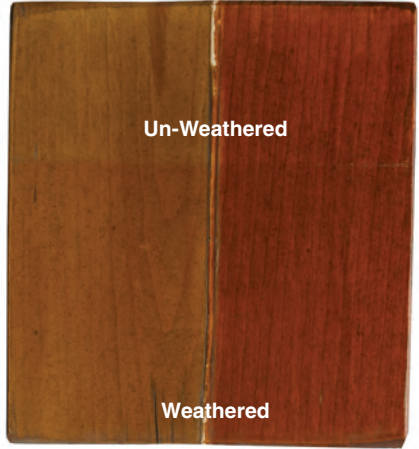
**Men-Wood**  
Buckeye



Color Change  
Delta E = 14.202

**Transformation**  
Red Tone Medium

**Transformation**  
(2 coats)  
Brown Tone Dark



Color Change  
Delta E = 2.822

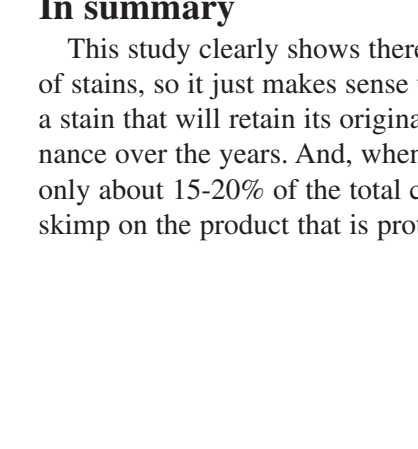
**Sikkens Cetol 1** (1 coat)  
**Sikkens Cetol 23** (2 coats)  
Teak

**Transformation**  
Natural



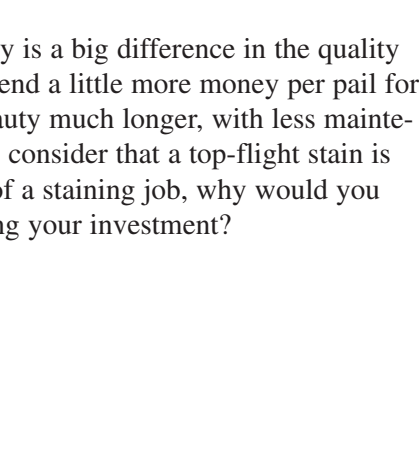
Color Change  
Delta E = 6.987

**Transformation**  
Red Tone Light



Color Change  
Delta E = 17.207

**Transformation**  
Red Tone Medium



Color Change  
Delta E = 30.044

## In summary

This study clearly shows there truly is a big difference in the quality of stains, so it just makes sense to spend a little more money per pail for a stain that will retain its original beauty much longer, with less maintenance over the years. And, when you consider that a top-flight stain is only about 15-20% of the total cost of a staining job, why would you skimp on the product that is protecting your investment?