

Aquaxyl™-enhanced Silicone-free Barrier Repair and Moisturization – Immediate and Sustained Skin Benefits in Adults, Children, and Teens

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**Key Findings:** A barrier restore balm formulated with Aquaxyl™ demonstrated rapid, measurable, and statistically significant improvements in skin hydration, barrier function, and visible skin quality. Benefits were evident immediately after application and sustained through 24 hours, with continued cumulative improvement over the 4-week study period. Expert grading and instrumental measurements confirmed significant enhancements in plumpness, texture, smoothness, radiance, and redness, alongside increased hydration and reduced TEWL. Nearly all subjects experienced visible improvement across evaluated parameters, highlighting both the rapid efficacy and sustained performance of the formulation.

Methods:

Clinical Testing Moisturization

**Objective** – Evaluate the efficacy of an Aquaxyl™ super humectant containing barrier restore balm using a split-face design for up to 24 hours, followed by twice daily, full-face treatment for the remainder of the 4 weeks. Efficacy assessment via expert grading, instrumentation, before-and-after photography, and subject perception self-assessments in healthy female subjects aged 18–45 years.  
**Instructions:** **AM** – Cleanse skin, apply barrier restore balm, follow with SPF and additional products as desired.  
**PM** – Cleanse skin, apply barrier restore balm.

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N=30 Female Panelists Completed the Study

|                          | Test Site | Baseline | Immediate | 12-Hour | 24-Hour | 1 & 4 Weeks |
|--------------------------|-----------|----------|-----------|---------|---------|-------------|
| Plumpness*               | Face      | X        | X         | X       | X       | X           |
| Texture*                 | Face      | X        | X         | X       | X       | X           |
| Smoothness*              | Face      | X        | X         | X       | X       | X           |
| Softness/Suppleness*     | Face      | X        | X         | X       | X       | X           |
| Radiance*                | Face      | X        | X         | X       | X       | X           |
| Redness*                 | Face      | X        | X         | X       | X       | X           |
| Moisture (Corneometer)** | Face      | X        | -         | X       | X       | X           |
| Barrier (TEWL)**         | Face      | X        | -         | X       | X       | X           |
| Consumer Perception      | Face      | -        | X         | X       | X       | X           |

\* Expert Grading. \*\* Bioinstrumentation

Split-faced expert and bioinstrumental grading at baseline, 15 minutes after application then at 12 and 24 hours.

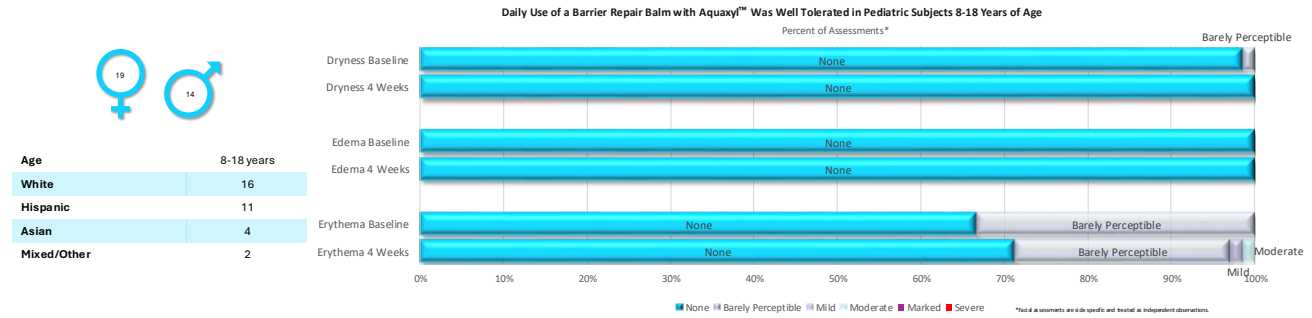
Consumer Perception

Designed to gather subjective feedback from participants regarding their experience with the balm. This feedback provides valuable insights into user perception of product efficacy, complementing objective data collected through other methods.

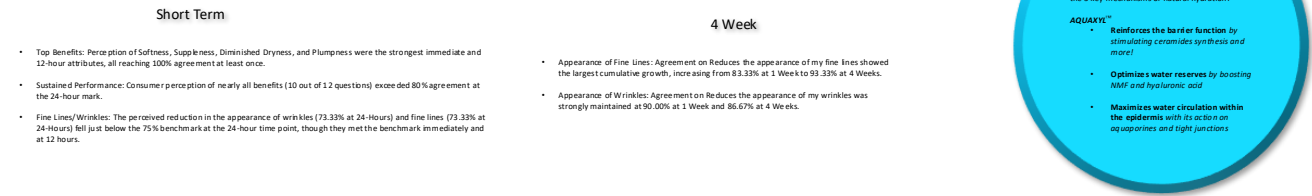
| Subjective Questionnaire                   | Immediate | 12-Hours | 24-Hours | 1-Week | 4-Weeks |
|--------------------------------------------|-----------|----------|----------|--------|---------|
| Visibly reduces skin redness               | X         | X        | X        | X      | X       |
| Makes my skin look plumped with moisture   | X         | X        | X        | X      | X       |
| Makes my skin look smooth                  | X         | X        | X        | X      | X       |
| Makes my skin feel smooth                  | X         | X        | X        | X      | X       |
| Makes my skin feel soft                    | X         | X        | X        | X      | X       |
| Makes my skin feel supple                  | X         | X        | X        | X      | X       |
| Makes my skin look radiant                 | X         | X        | X        | X      | X       |
| Makes my skin look healthy                 | X         | X        | X        | X      | X       |
| Reduces the appearance of my wrinkles      | X         | X        | X        | X      | X       |
| Reduces the appearance of my fine lines    | X         | X        | X        | X      | X       |
| Improves the overall appearance of my skin | X         | X        | X        | X      | X       |
| Diminishes the look of dry skin            | X         | X        | X        | X      | X       |
| Visibly evens my skin tone                 | X         | X        | X        | X      | X       |

Safety in Use in Children and Teens – Barrier Repair Balm

**Objective:** Evaluate potential for dermatological irritation and/or hypersensitivity in pediatric subjects, **8-18 years** of age, following daily use of a barrier repair balm with Aquaxyl™ super humectant on the face for 4 weeks. **Instructions:** Warm barrier balm between fingers and pat into skin. Apply anywhere the skin needs extra moisture or barrier protection. Can be used in the morning or evening. All clinical skin assessments were performed by a board-certified dermatologist at baseline and Week 4. Erythema, edema, and dryness were evaluated using a 6-point ordinal grading scale defined as: 0=None; 0.5=Barely Perceptible; 1=Mild; 2=Moderate; 3=Marked; and 4=Severe.



Consumer Perception



Findings:

Redness - 96.7% of Panelists Demonstrated Improvement at 1 and 4 Weeks

Texture – 93.3% of Panelists at 1 Week and 100% at Week 4 Demonstrated Improvement

Smoothness - 96.7% of Panelists at 1 Week and 100% at Week 4 Demonstrated Improvement

Softness/Suppleness – 96.7% of Panelists at 1 Week and 100% at Week 4 Demonstrated Improvement

Moisture – 100% of Panelists Demonstrated Improvement at 1 and 4 Weeks

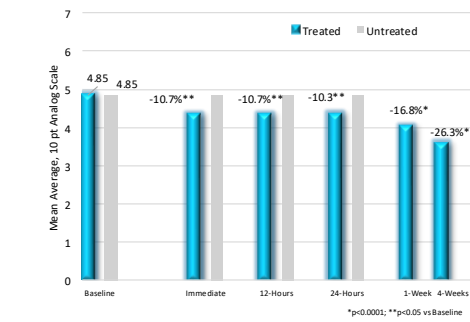
Barrier - 100% of Panelist Demonstrated Improvement at 1 and 4 Weeks

Short Term

- The short-term use of a barrier restore balm with Aquaxyl™ super humectant demonstrated a statistically significant ability to reduce Redness, showing a sustained mean reduction of over 10% through 24 hours.
- The 0% mean improvement on the Untreated Control side confirms that the observed anti-redness effects are due to the active treatment.

4 Weeks

- The clinical data confirms that the positive effects of a barrier restore balm with Aquaxyl™ super humectant provides a statistically significant and cumulative reduction in Redness.
- Improvements were evident as early as 1 Week (16.84%) and strengthened further by Week 4 (26.29%) with consistently high panelist agreement.

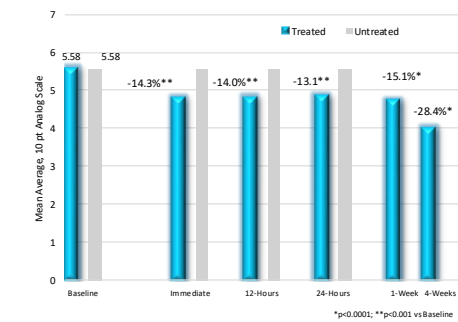


Short Term

- The short-term use of a barrier restore balm with Aquaxyl™ super humectant demonstrated a robust and long-lasting positive effect on texture, yielding a sustained mean improvement of approximately 13% over 24 hours.
- The Untreated Control side showed 0% mean improvement, statistically confirming that the measured effects are due to the active treatment.

4 Weeks

- The clinical data confirms that the positive effects of a barrier restore balm with Aquaxyl™ super humectant on texture are cumulative and highly statistically significant, resulting in the mean improvement doubling by the end of the 4-week study.

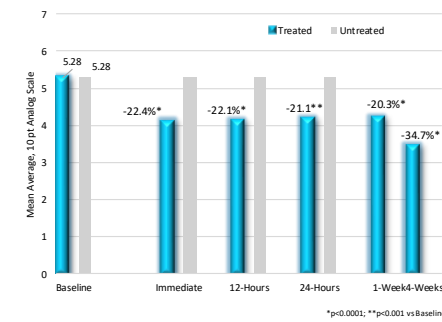


Short Term

- The short-term use of a barrier restore balm with Aquaxyl™ super humectant demonstrated a robust and long-lasting positive effect on Smoothness, yielding a sustained mean improvement of 21% that was sustained for 24 hours.
- The Untreated Control side showed 0% mean improvement, confirming that the highly significant effects observed are attributable to the active treatment.

4 Weeks

- The clinical data confirms that the positive effects of a barrier restore balm with Aquaxyl™ super humectant on Smoothness are cumulative and highly statistically significant, resulting in a mean improvement of 34.65% by the end of the 4-week study.

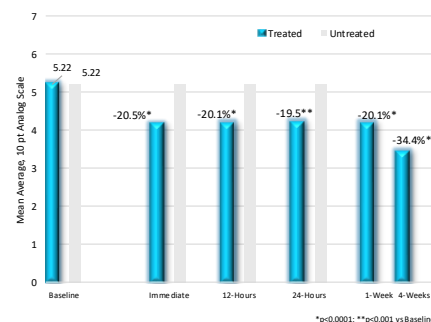


Short Term

- The short-term use of a barrier restore balm with Aquaxyl™ super humectant delivered a robust and highly significant effect, with mean improvement in Softness & Suppleness remaining near 20% from immediate application through 24 hours.
- The 0% mean improvement on the Untreated Control side confirms that the substantial positive effects are directly and conclusively attributable to the active treatment.

4 Weeks

- The clinical data confirms that the positive effects of a barrier restore balm with Aquaxyl™ super humectant on Softness & Suppleness are cumulative and highly statistically significant, resulting in a mean improvement of 34.35% by the end of the 4-week study.

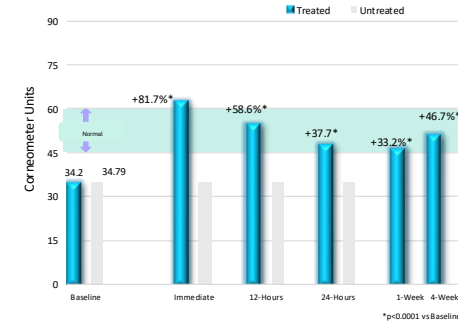


Short Term

- The short-term use of a barrier restore balm with Aquaxyl™ super humectant demonstrated its most powerful clinical effect on Moisturization, achieving an initial increase of 81.68% and sustaining a statistically conclusive increase of 37.74% after 24 hours.
- The Untreated Control side showed no significant change, validating that the dramatic and long-lasting moisturization effects are definitively caused by the active treatment.

4 Weeks

- The clinical data confirms that the positive effects of a barrier restore balm with Aquaxyl™ super humectant confirms that the positive effects of Bubble Barrier Balm on Moisturization are cumulative and highly statistically significant, resulting in a 46.7% mean increase in skin hydration after 4 weeks of use.



Short Term

- The short-term use of a barrier restore balm with Aquaxyl™ super humectant delivered a conclusive and highly significant improvement in skin barrier function, achieving a nearly 28% immediate reduction in TEWL and sustaining a significant (p<0.0001) benefit through 24 hours.
- The consistency of the 0% change on the Untreated Control side affirms the treatment's specific efficacy in strengthening the skin barrier.

4 Weeks

- The clinical data confirms that the positive effects of barrier restore balm with Aquaxyl™ super humectant are cumulative and highly statistically significant, resulting in a 19% mean reduction in TEWL after 4 weeks of continuous use.

