

# Actives

## HYASIL™

HYASIL™ is a bi-functional dermal architecture complex composed of:

- Sodium Hyaluronate
- Sodium Hyaluronate Cross polymer
- Methylsilanetriol

Engineered to support extracellular matrix (ECM) integrity and scalp structural environment, particularly in hair and regenerative applications.

## THE FORMULA

- Sodium hyaluronate
- Sodium hyaluronate cross polymer
- Methylsilanetriol

## MECHANISM OF ACTION

### 1. ECM & Follicle Support

Supports extracellular matrix reconstruction, enhancing scalp firmness and strengthening follicular anchorage.

### 2. Dual-Action Hydration System

Provides immediate and long-lasting hydration through a combination of free and crosslinked hyaluronic acid.

### 3. Scalp Microenvironment Enhancement

Optimizes scalp hydration balance, cellular communication, and active ingredient bioavailability.

## FUNCTIONALITY

- Reinforces follicular anchoring environment
- Reduces micro-degeneration of ECM
- Enhances delivery efficiency of:
  - Growth factors
  - Peptides
  - PDRN / regenerative actives
- Supports thicker, more resilient hair emergence

## APPLICATIONS

- Daily serum
- Scalp tonic
- Spray mist
- Booster serum
- Professional ampoules

## TRICHONOMICS

### Parameter

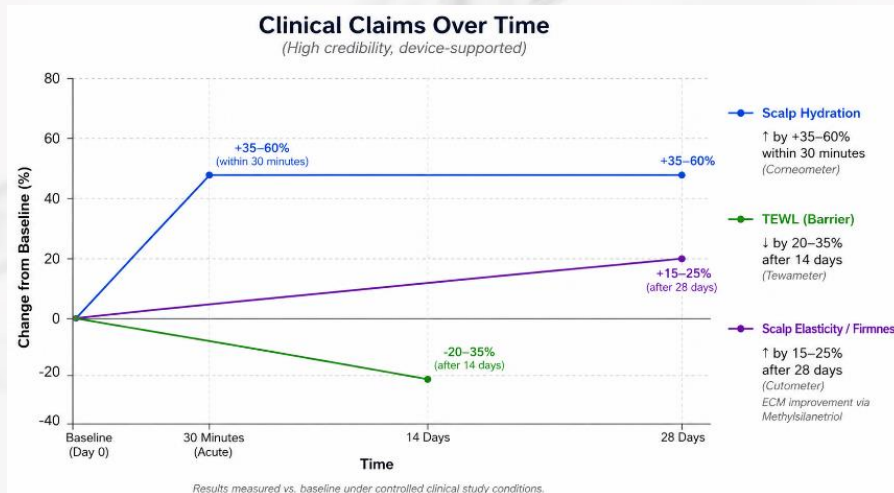
Scalp hydration  
Scalp elasticity  
Trans epidermal Water  
Loss (TEWL)

### Outcome

+35-60%  
↓ 20-35%  
+15-25%

## CLINICAL OUTPUT

This graph demonstrates the time-dependent clinical benefits of the ingredient on scalp health. Scalp hydration increases rapidly by **35-60% within 30 minutes** and remains sustained over 28 days. After **14 days, TEWL decreases by 20-35%**, indicating improved scalp barrier function and moisture retention. In addition, **scalp elasticity and firmness improve by 15-25% after 28 days**, reflecting enhanced extracellular matrix (ECM) support. Overall, the ingredient provides **immediate hydration, strengthens the scalp barrier, and improves long-term scalp structure and resilience.**



## COMPATIBILITY

Works synergistically with:

- Niacinamide
- Caffeine
- Peptides (e.g., copper peptides)



## Indications

- Dry or Dehydrated Scalp
- Hair Thinning & Reduced Hair Density
- Aging Scalp
- Hair Regrowth & Regenerative Protocols