

# StainGuard Plus™ Time-Release Technology



## Powerful Algae Protection

Protect your roof investment with algae resistance so powerful, it comes with a 25-year Limited warranty\* against blue-green algae discoloration.



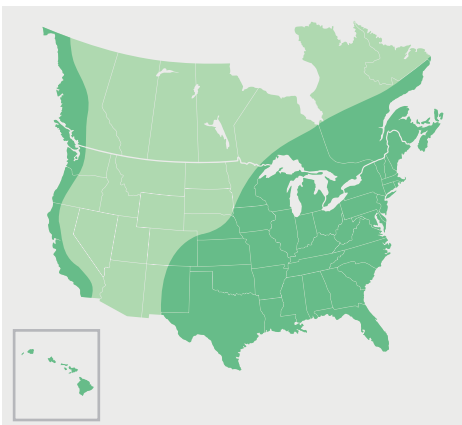
# StainGuard Plus™ Time-Release Technology

## The Challenge:

- Blue-green algae (*Gloeocapsa magma*) lives in more than 80% of the U.S., leaving dark black stains wherever it grows, and making millions of perfectly good roofs look old before their time.
- Many traditional algae-resistant shingles use granules that contain a layer of algae-fighting copper that is released onto the roof when it's wet. As the roof ages, those granules release less copper, reducing the shingle's algae resistance.

## Time-Release Technology:

- StainGuard Plus™ Time-Release technology** uses specially engineered capsules\* that are infused throughout with thousands of copper microsites.
- These breakthrough stain-fighting capsules can release algae-fighting copper more efficiently, over time, for long-lasting algae-fighting power.
- In fact, they deliver ten times as much algae-killing copper as our traditional copper-coated mineral granules.
- It's an exclusive patent-pending algae-fighting breakthrough so powerful, it comes with a 25-year limited warranty against blue-green algae discoloration.\*



Blue-green algae can be found throughout the U.S. and Canada, but poses a much greater problem in areas of high humidity.

Danger zone    Moderate problem



*Gloeocapsa magma* is blue-green in color, but surrounds itself with a dark brownish-black shell to protect against the sun's rays. The dark shell causes the telltale streaking on the roof.



Visit [gaf.com/TimeRelease](http://gaf.com/TimeRelease)

\*StainGuard Plus™ Time-Release technology and 25-year limited warranty against blue-green algae discoloration available only on Timberline Ultra HD® Shingles sold in packages bearing the StainGuard Plus™ logo. Does not apply to Timberline Ultra HD® Reflector Series™ Shingles. See GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions.

We protect what matters most™

