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Roof Maxx

Granule Adhesion: Testing Results

Three-tab, 17-year-old asphalt shingles were treated with Roof Maxx, then tested to determine how well surface granules adhere to the shingles. Results indicate that the formulation significantly increases an aging shingle's granule adhesion.

GRANULE ADHESION

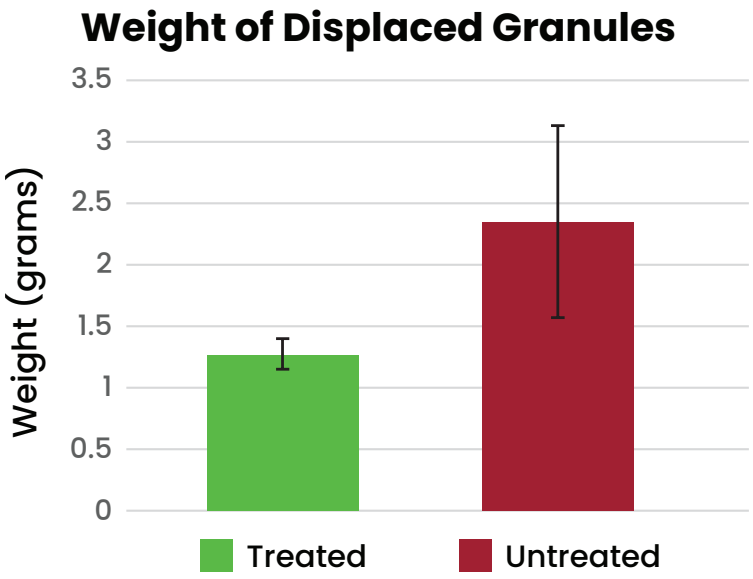
Granules are essential components of asphalt roofing shingles. Granules can improve a roof's appearance, but of greater importance is their role as a shield: granules protect the shingles from harsh ultraviolet (UV) sunlight that degrades shingle integrity, reducing the roof's lifespan and performance.

TESTING PROCESS

The process followed ASTM D4977: Standard Test Method for Granule Adhesion to Mineral-Surfaced Roofing by Abrasion. The approach is to abrade the granule surface of a shingle and weigh the displaced granules. If the weight is low (i.e., if little to no mass is lost through abrasion), adhesion is considered good; if the weight is high, adhesion is considered poor.

- Three-tab 17-year-old asphalt shingles were tested.
- Half were sprayed with Roof Maxx, and half were control (untreated).
- All were shipped to an independent accredited laboratory for testing.

RESULTS



The untreated shingles lost considerably more granules than the treated shingles, indicating that Roof Maxx can improve an aging shingle's adhesion.

About Roof Maxx

Roof Maxx treatment is an earth-friendly, effective, and affordable alternative to roof replacement or the application of traditional roof sealants. Derived from soybean oil, this shingle sealer–rejuvenator is certified USDA BioPreferred. The treatment is spray-applied to asphalt-based roofing materials to extend service life up to 15 years. This breakthrough product re-saturates curled, leaky shingles, restoring pliability and flexibility, and enhances adhesion of the protective mineral granules.

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