

Roof Maxx

Hail Impact Resistance: Testing Results

Three-tab, 17-year-old asphalt shingles were treated with Roof Maxx, then tested to determine their resistance to hail damage. Results indicate that the formulation increases resistance to this type of impact.

HAIL IMPACTS

Hard hail can crack shingles, significantly reducing their ability to protect the underlying roof. As shingles age, they become less flexible and resilient to such impacts. Roof Maxx treatments restore shingles' flexibility and so, presumably, their potential to withstand hail storms. Roof Maxx and Airable tested this hypothesis.

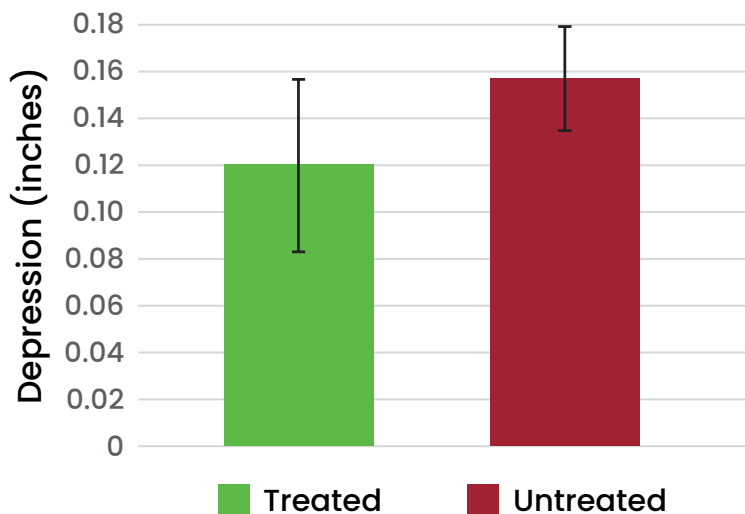
TESTING PROCESS

The process followed UL2218 Class 4 Standard Hail impact testing. In the test, a 2" steel ball is dropped onto a shingle twice in the same spot. Shingles that show signs of fracture fail; indents or depressions are considered cosmetic impacts. Researchers measured the depressions left in the shingles to determine resilience.

- 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

Depression size of impacted shingles



The average depression size was ~24% smaller in shingles that had been treated with Roof Maxx, indicating that the treatment does increase resilience.

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.

