

SHINGLE SERUM™

INDEPENDENT LABORATORY TESTING SUMMARY

PRI Construction Materials Technologies, LLC

Independent testing performed May 26 – July 9, 2026 | Project No. 2259T0004



67% LESS GRANULE LOSS

ASTM D4977 ABRASION TESTING

Treated shingles lost only **0.13 grams** of protective granules compared to **0.39 grams** on untreated shingles during laboratory abrasion testing.

GRANULE LOSS AFTER 50 CYCLES

UNTREATED SHINGLES



0.39 grams

SHINGLE SERUM™ TREATED



0.13 grams

67%
LESS
GRANULE
LOSS

WHY IT MATTERS

The mineral granules on an asphalt shingle are the first line of defense. Reducing granule loss helps preserve the protective surface of the shingle and maintain its long-term performance.



UV
PROTECTION



WEATHER
RESISTANCE



GRANULE
RETENTION



LONGER
ROOF LIFE

INDEPENDENT TEST RESULTS



ASTM D4977

GRANULE ADHESION

Measures the resistance of mineral granules to being removed by abrasion.

RESULT:

Approximately 67% less granule loss than untreated shingles.



**67% LESS
GRANULE LOSS**



ASTM D3462

PLIABILITY

Measures the ability of shingles to bend without cracking at low temperatures.

RESULT:

All treated shingles successfully passed flexibility requirements with no cracking during testing.



PASSED



ASTM D5

ASPHALT PENETRATION

Measures the hardness or softness of the asphalt binder.

RESULT:

Testing showed no significant adverse changes to asphalt hardness after treatment.



**NO ADVERSE
CHANGE**



ASTM D2170

ASPHALT VISCOSITY

Measures the flow characteristics of the asphalt binder.

RESULT:

Treatment produced no significant changes to asphalt flow characteristics.



**NO ADVERSE
CHANGE**

TEST CONDITIONS

- ✓ Applied according to manufacturer instructions
- ✓ One coat at approximately 100 sq ft per gallon
- ✓ Seven-day cure prior to testing
- ✓ Test deck conditioned 16 hours at 135–140°F
- ✓ Testing performed by

PRI Construction Materials Technologies, LLC



PROTECTS TODAY. PERFORMS TOMORROW.

UNTREATED SHINGLE



Increased granule loss exposes asphalt to UV rays, leading to faster aging, cracking and leaks.

SHINGLE SERUM™ TREATED



Shingle Serum helps lock granules in place, maintaining curb appeal and extending the life of your roof.

VS



INDEPENDENT LABORATORY TESTING PERFORMED BY:

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This summary is based on laboratory testing of treated and untreated asphalt roofing materials. Results are intended for informational purposes only. Performance in service depends on roof age, installation, climate, maintenance and other environmental factors. Laboratory testing does not establish a specific extension of roof life.

For the complete test report, contact The Attic Depot LLC.