

Case Study

"1 Year Roof Rejuvenation & Oil Replenishment"

Photos are unedited and nonfiltered



Chemistry

- The Roof Rejuv formula will initially deepen the color of a shingle but not change the color.
- The solution penetrates each layer of the asphalt shingle, replenishing the fine oils and restoring pliability.
- A hydrophobic effect is produced once the solution is fully absorbed. Allowing rain water and snowmelt to repel vs. absorb into the shingle.

Fine Oil Replenishment – Asphalt Shingles



UL2218- Impact Resistance (Hail Damage Test)

There were **no failures** of the BioRejuv treated new and old asphalt shingles.

The untreated new and old asphalt shingle exhibited multiple failures.

ASTME96- Water Vape or transmission (Water Proofing or Sealing)

BioRejuv has shown to decrease water infiltration/vapor through the used shingles by **97%**. This proves BioRejuv rejuvenated and sealed the old asphalt shingles.

ASTMD3462- Pliability Test

There were **no failures** in the BioRejuv treated used asphalt shingles proving BioRejuv completely rejuvenated the shingles.

Failures existed with the untreated used asphalt shingles. Cracking was evident in many samples of the untreated shingles.

UL2218- Impact Resistance (Hail Damage Test)

The treated used asphalt shingles had **84%** more granule retention over the untreated old shingle samples.

Snowmelt Winter 2020 – 5 Months after first Treatment



Roof Rejuv Treatment October 2020

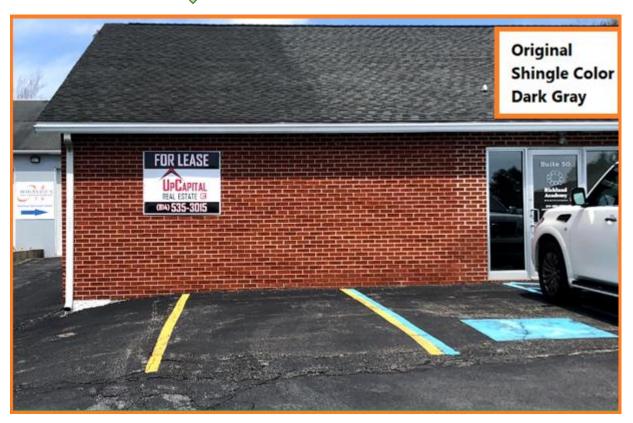
- Asphalt Shingles 17 years old.
 Dry, brittle and aged. Nearing end of lifespan.
- Western, Pennsylvania.
- Four Seasons (Summer, Fall, Winter, Spring.)
- Commercial Property.

Oil Replenishment – 6 months after first treatment

Photo Taken 6 months after treatment 4/1/2020

Unsprayed/Untreated





Roof Rejuv Treatment October 2020

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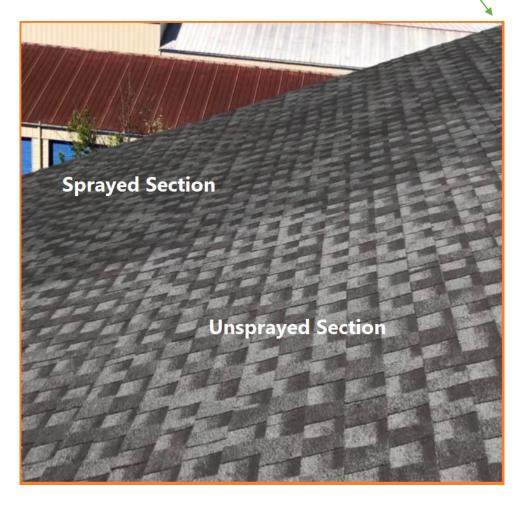


Photos taken at side angle 10/1/2021

Replenished and near original installation color

Photos Taken 10/1/2021

1 full year after first shingle treatment \



Photos Taken 10/1/2021

1 full year after first shingle treatment

- Asphalt completely replenished and rejuvenated.
- Pliability and Flexibility returned.
- Aging process stopped.





Photos Taken 10/1/2021
1 full year after first shingle treatment

- Asphalt completely replenished and rejuvenated.
- Pliability and Flexibility returned.
- Aging process halted.

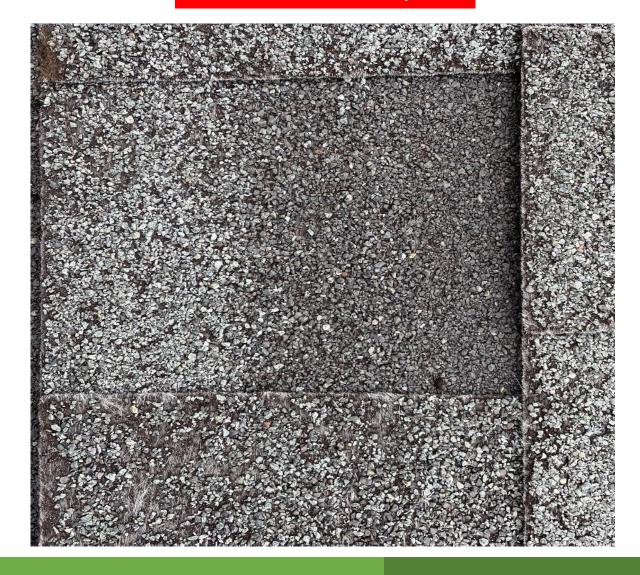
Rejuvenated Closeup



Photos Taken 10/1/2021

- Dry, Brittle
- Cracking.
- Aging daily.

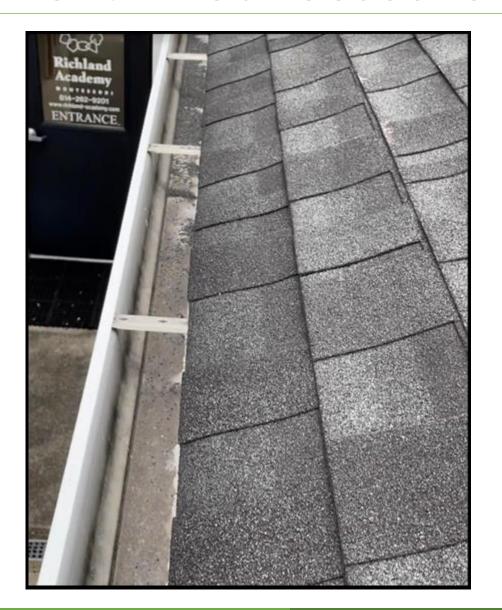
Untreated Closeup



Photos Taken 10/1/2021

1 full year after first shingle treatment

- Gutter full of Aggregate on unsprayed section. Granular in tact on sprayed section.
- Gutter Clean on sprayed section





Photos Taken 10/3/2021

1 full year after first shingle treatment

Photos taken head-on 10/3/2021

Replenished and near original installation color

