



# Product Performance Test

The purpose of this document is to provide guidelines for determining if a Roof Maxx treatment is performing as intended.

Roof Maxx was designed as a maintenance product that replaces the lost petrochemical oil that is naturally found in asphalt with Roof Maxx's plant-based oil. Introducing Roof Maxx's plant-based oil into the shingles rejuvenates the asphalt which increases the roof shingles service-life by restoring flexibility in turn maximizing waterproofing protection.

## Flexibility / Pliability

Roof Maxx's main purpose is to help maintain flexibility and pliability of the shingle for as long as possible to help keep the roof in a serviceable condition and avoid a costly roof replacement.

The test we use to determine how the treatment is performing is based on the Florida Building Code 45 Degree test outlined below.

## 2017 Florida Building Code 706.1.1 25% Rule

In order to be valid, any brittleness test must be random, representative, and repeatable. During a brittleness test the shingle is loosened at its lower edge from the shingle below. It is then raised and lowered 45 degrees three times.

If the shingle develops a crack or "seam" during the test, then the shingle is too brittle and IS NOT performing as intended.. If the shingle does not develop a crack or "seam," then the shingle IS performing as intended.

[\*Click here to review the Florida building code\*](#)

[\*Click here to watch the short demonstration video\*](#)



## Tools Required to Perform Test

To perform this test you will need an infrared thermometer, a speed square, a pry bar to unseal the shingles, a hook blade knife and asphalt shingle sealant to reseal the shingles after the test is completed.

This test can be performed on 3-tab or dimensional (laminated/architectural) shingles. The test is to be performed on the **Southern or Western slopes** which receive the sun's highest UV rays causing the greatest wear on an asphalt shingle roof system. Roof surface temperature should be at a minimum of 55\* verified with infrared thermometer.



Infrared Thermometer



Speed Square



Flat Pry Bar



Knife w hook blade



Caulking gun



Asphalt shingle sealant



## 3 Tab Shingle Testing Procedure

Unseal the bottom edge of the shingle to be tested from the shingle below it being careful to not damage it. Place the square on the bottom edge of the shingle above the one to be tested. Lift from the bottom edge of the shingle and slowly raise the shingle until the bottom edge reaches 45\* to the square. Lower the shingle back down and repeat this 2 more times to determine if the shingle broke or has experienced any creasing or fractures.

**Note:** Make sure to test shingles that have not already been creased and or already compromised.



Unseal shingle



Place square at bottom of the shingle above



Raise shingle to 45 Deg  
3 x to complete test

If the shingle breaks or fractures it is considered a fail. Please contact [dealersupport@roofmaxx.com](mailto:dealersupport@roofmaxx.com) to discuss details.



# Dimensional (laminates) Testing Procedure

There is one additional step in testing a laminate shingle



Testing is to be performed on the single layer between laminated sides



Unseal desired section

Cut each side with hook blade  
( DO NOT cut shingle beneath )



Section cut down  
along both sides

Place square at bottom  
of the shingle above

Raise from the bottom of  
the shingle to 45 deg  
3 x to complete test