

# Synthetics vs. Naturals



Pioneers in Sustainable Roofing Since 1993

## Why Choose EcoStar?

- Innovators in synthetic roofing since 1993
- Breadth of slate, shake, concrete and clay product offering
- Made with up to 80% upcycled polymer & rubber (not tires)
- Designed with up to 6" headlap for installation integrity
- Easy application keeps installation costs down
- Proven products providing superior protection against fire, ice, snow, wind, rain and hail
- Manufactured in the USA

## Protection Overview

- Miami Dade prolonged and accelerated weathering @ 4,500 hours
- Miami Dade Wind TAS100 & TAS125 (NOA # 23-0601.01)
- Canadian Code Compliance Evaluation (CCMC-14174-R)
- UL listed Class C or A fire resistance (UL 790)
- UL Class 4 (highest rating) hail impact resistance (UL 2218)
- Job lot control produces uniform roof tile weathering
- Manufactured to ISO 9001:2015 Quality Management Standard
- 50-Year Material Warranty
- 50-Year Transferable Labor and Material Warranty available

## Synthetic Slate vs. Natural Slate

	EcoStar Synthetic Slate	Natural Slate
Cost	<ul style="list-style-type: none"><li>• Lower material and labor cost</li><li>• Approximately 3lb. / sq. ft.</li><li>• 1/2" plywood required</li><li>• Lower initial cost</li><li>• Lower lifecycle cost</li></ul>	<ul style="list-style-type: none"><li>• Requires additional structure</li><li>• Weight is 10 - 24lbs. / sq. ft.</li><li>• 5/8" to 3/4" plywood required</li><li>• Higher initial cost</li><li>• Higher lifecycle cost</li></ul>
Maintenance	<ul style="list-style-type: none"><li>• Can walk on it for other building maintenance issues</li><li>• Doesn't crack, chip or fall out</li><li>• High resistance to fungus/algae growth (ASTM G21)</li></ul>	<ul style="list-style-type: none"><li>• Periodic maintenance required, without foot traffic</li><li>• Potential liability from falling or breaking slate</li><li>• Cracked, chipped slate requires repair</li></ul>
Life Expectancy	<ul style="list-style-type: none"><li>• 50-year warranty with life expectancies higher than 50 years</li></ul>	<ul style="list-style-type: none"><li>• 50 Year + Warranty</li></ul>
Quality	<ul style="list-style-type: none"><li>• Quality is factory controlled</li><li>• Made with recycled content to provide superior flexibility and resistance to impact, wind and harsh weather conditions</li></ul>	<ul style="list-style-type: none"><li>• Long lead times</li><li>• Uncertain sourcing</li><li>• Inconsistent color</li><li>• Involves depletion of natural resources and other environmental issues</li><li>• Requires qualified installer</li></ul>
Color	<ul style="list-style-type: none"><li>• Colorfast</li><li>• Does not fade, it weathers</li><li>• Available in a wide range of standard and custom colors and blends</li></ul>	<ul style="list-style-type: none"><li>• Unfading colors weather over time</li><li>• Semi-weathering color can be inconsistent</li></ul>
Warranty	<ul style="list-style-type: none"><li>• 50-year material &amp; 50-year material and labor warranties available</li><li>• Class A or C fire rating available</li><li>• Class 4 impact resistance</li><li>• 90/110 mph wind warranty available</li></ul>	<ul style="list-style-type: none"><li>• Varies by quarry provider</li></ul>

# Synthetic Shake vs. Natural Shake

	EcoStar Synthetic Shake	Natural Shake
<b>Cost</b>	<ul style="list-style-type: none"> <li>• Lower installed cost</li> <li>• Lower lifecycle cost</li> </ul>	<ul style="list-style-type: none"> <li>• Wide material cost fluctuations</li> <li>• Higher lifecycle cost</li> </ul>
<b>Maintenance</b>	<ul style="list-style-type: none"> <li>• Mold and mildew resistant</li> <li>• High resistance to fungus/algae growth (ASTM G21)</li> <li>• Little to no maintenance required to achieve full life expectancy</li> <li>• Can be walked on</li> </ul>	<ul style="list-style-type: none"> <li>• Periodic maintenance required, without foot traffic</li> <li>• Debris must be cleared</li> <li>• Mold and mildew growth common</li> </ul>
<b>Life Expectancy</b>	<ul style="list-style-type: none"> <li>• 50-year warranty with life expectancies higher than 50 years</li> </ul>	<ul style="list-style-type: none"> <li>• Performance depends on factors like shade, climate, thickness, quality and maintenance</li> <li>• Without proper maintenance 12-18 year life expectancy</li> </ul>
<b>Quality</b>	<ul style="list-style-type: none"> <li>• Quality is factory controlled</li> <li>• Made with recycled content to provide superior flexibility and resistance to impact, wind and harsh weather conditions</li> </ul>	<ul style="list-style-type: none"> <li>• Quality depends on small independent mill operations</li> <li>• Wide variation in quality</li> </ul>
<b>Color</b>	<ul style="list-style-type: none"> <li>• Colorfast</li> <li>• Does not fade, it weathers</li> <li>• Available in a wide range of standard and custom colors and blends</li> </ul>	<ul style="list-style-type: none"> <li>• Inherent color changes from brown to grey to bronze depending on species</li> <li>• Color matching is difficult</li> </ul>
<b>Warranty</b>	<ul style="list-style-type: none"> <li>• 50-year material and 50-year material and labor warranties available</li> <li>• Class A or C fire rating available</li> <li>• Class 4 impact resistance</li> <li>• 90/110 mph wind warranty available</li> </ul>	<ul style="list-style-type: none"> <li>• Warranty only applicable if roof is treated</li> <li>• To obtain warranty, product must be installed by a certified installer according to the Cedar Shake and Shingle Bureau</li> <li>• Warranty does not cover problems with color, cracking or splitting</li> <li>• Fire Rating available in certain markets</li> <li>• Fire Rating requires coating</li> </ul>



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