



VOICE OF THE ROOFING COMMUNITY
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SYNSTEP 100 Synthetic Roofing Underlayment

SYNSTEP 100 is an advanced roof underlayment that provides effective air, water, and vapor barrier properties. Product designed specifically for steep slope roofs application. Perfect for use under synthetic shingles, primed cedar, asphalt, stands out for its exceptional strength, long-lasting durability, and ease of use, surpassing latest industry norms. Underlayment boasts a four-layer design, incorporating a Circular loom woven scrim and a Spunbonded PP non-woven laminate as its top layer. Each layer receives UV protection, and the underside is treated with an elastomer for anti-slip safety.



Compliance and Building codes:

- [Intertek Code Compliance Research Report \(CCRR – 0549\)](#)
- [Florida Building Code Approved - #FL46899](#)
- Performance characteristics meet or exceed ASTM D8257
- Meets the requirements of ICC-ES AC188.
- Building Codes: 2021 IBC, 2021 IRC, 2023 FBC for use in HVHZ.

Features and Benefits:

- **Tensile Strength & Tear Resistance:** High resistance to mechanical stresses and tearing, maintaining integrity under pressure.
- **Lightweight & Easy Handling:** Lightweight rolls facilitate quick and effortless handling.
- **Preprinted Guides:** Preprinted nailing patterns and overlap lines optimize installation speed, reducing labor hours.
- **Weather Protection:** Low-temperature flexibility. Tested for UV retention up to 6 months. Backed by a 30-year limited warranty.
- **Water & Moisture Barrier:** The product's design resists water absorption, safeguarding against warping, wrinkling, and mold growth.
- **Low WVTR:** Low water vapor transmission rate ensures a superior moisture barrier.
- **Cool Grey Surface:** The high-traction grey top layer reduces heat absorption, providing a cooler and more comfortable surface for workers.
- **Anti-Slip Coating:** A polymer anti-slip coating on the bottom surface ensures excellent skid resistance, minimizing workplace hazards.
- **Sustainable Materials:** Crafted from 100% recyclable inorganic polymers, making it rot and mold-resistant, free from harmful chemicals.
- **Wide Temperature Range:** Operates effectively in temperatures ranging from 40°F to 240°F.
- **Consistent Reliability:** No buckling, warping, mold growth, rot, or cracking, ensuring consistent performance across various conditions.

Specification:

Test Properties	Test Method	Unit	Typical Values
Mesh	-	PPI	8 x 8
Nominal Thickness	ASTM D1777	mils	7
Finished Weight (GSM)	ASTM D3776	g/m2	100 ±5%
Tensile Strength (Cut Strip Method)	ASTM D5035	lbs	MD: 90 / CD: 90
Tensile Elongation	ASTM D5035	%	MD > 16 / CD > 16
COF (kinetic friction)	ASTM D1894	μk	MD > 0.6 / CD > 0.6
COF (static friction)	ASTM D1894	μs	MD > 0.6 / CD > 0.6
Tensile Tear Strength	ASTM D4533	lbs	MD: 20 / CD: 20
Liquid Water Transmission	ASTM D4869	-	Pass
WVTR	ASTM E96(B)	perms	<0.5
UV Retention	ASTM G154	days	>180
Bonding	-	P/F	Pass
Dimensional Stability	ASTM D1204	%	< ±1.5
Fire Rating	ASTM E108	P/F	Pass (Class A)



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STORAGE/HANDLING

Completed rolls are wound onto paper cores and then placed on wooden crate pallets for transportation. For outdoor storage, it's essential to protect SYNSTEP100 from the sun with proper UV cover, especially if stored under open air.

The product must be kept away from open flames or other potential ignition sources during all phases-storage, shipment, and installation. Proper handling & installation are paramount to maintain product integrity. For more detailed information on storage and installation, refer to the separate instruction manual.

Availability:

- Roll: 48" x 250' | 10 sq. roll. (93 m²)
- Packaging: 56 rolls per pallet.
- Standard Top Surface & Color: Cool Grey
- Printing: 2 color high-quality printing.
- Note: Private label with custom sizes and colors is available.
- Bottom Surface: Synthetic skid resistant structure

This product is manufactured in accordance with national standards, which allow for non-critical variance in weights and measures. All values are nominal. Data is based on average values taken over several production runs and should not be considered or interpreted as minimum or maximum values