



OX Engineered Products
22260 Haggerty Road Suite 365
Northville, MI 48167
p. 1.800.345.8881
f. 248.289.9955
oxep.com



toughSKIN[®] 20

roof underlayment by **OX**

Installation Guide

ToughSkin's SlipSafe technology makes installing roof underlayment easier, and more importantly, safer. A roof that lasts for decades starts with a high-quality underlayment. ToughSkin is engineered to work better for both contractors and their customers than traditional felt underlayment. Our innovative SlipSafe technology makes for a safer surface to work on while lighter, wider rolls makes installation faster. Four layers of protection are made to stand up to years of the harshest weather conditions.

Made in USA 

More Coverage

33% more coverage per lap (48" compared to 36" for felt)

Strength

25 x stronger than 15 lb. felt

Ease of Installation

Wider, lighter, more coverage per lap (48" compared to 36" for felt)

Environmentally Friendly

No oil leaching - no hazardous material content

INSTALLATION

General

Installation of HomeGuard ToughSkin® Underlayment must comply with the applicable building codes, this report and the manufacturer's published installation instructions. The installation instructions must be available at the jobsite at all times during installation.

Prior to application of HomeGuard ToughSkin®, the deck surface must be dry and free of dust, dirt, loose nails and other protrusions. Damaged sheathing must be repaired or replaced. Underlayment must be installed in accordance with the provisions of sections 1507 and 1518 of the FBC

Application (All Installations higher than 2:12 Pitch)

HomeGuard ToughSkin® Underlayment is designed for roofing slopes of 2:12 and higher and should be installed printed side up and horizontal (parallel) to the eave, starting at the lowest eave point. For low slope applications; usually defined as between 2:12 to 4:12 it is recommended to overlap 50% plus 1", for complete definition of low slope and guidelines consult local building code officials.

ToughSkin® Synthetic Underlayments are designed for use under: Asphalt or Synthetic Shingles, Metal Roofing in residential applications, and Cedar Shakes that have been back primed.

Metal drip edge should be placed under HomeGuard ToughSkin® at the eave and over HomeGuard ToughSkin® along the rake edge. If eave metal will be installed after the underlayment is applied, the first row of fasteners should be placed 3-inches (76 mm) up from the eave so that the metal edging can be slipped under the underlayment before nailing.

Horizontal overlaps should be 4-inches (102 mm) running with the flow of water in a shingle fashion. Vertical end overlaps should be 6-inches (152 mm).

HomeGuard ToughSkin® may be installed using corrosion resistant roofing nails having a 3/8-inch (9.5 mm) diameter head. Low profile plastic or metal cap corrosion resistant nails with 1-inch (25.4 mm) caps may be used when preferred or required by local codes. Per Florida Building Code; section 1506.5; Nails should be corrosion resistant nails conforming to ASTM F1667. Corrosion resistance shall meet ASTM A641, Class 1 or an equal corrosion resistance by coating, electro-galvanization, hot dipped galvanization, stainless steel, nonferrous metal and alloys or other suitable corrosion-resistant material. The Corrosion Resistant Fasteners should be long enough to penetrate through the sheathing or a minimum of 3/4 inch (19.1 mm) into solid decking.

The use of Corrosion Resistant or Stainless-Steel staples (No. 16 SS Staples) with minimum 7/16-inch crown, to fasten ToughSkin® Underlayments to the roof deck; is only permitted when the final roof covering is installed immediately after underlayment installation and completed within 24 hours of underlayment installation.

For use in High Velocity Hurricane Zones (HVHZ), ToughSkin Underlayments shall be installed in strict accordance with Florida Building Code Section 1518.2; as part of a HVHZ Approved Assembly.

For standard application, fasteners are spaced 12-inches (305 mm) along the top, bottom and side laps and 24-inches (610 mm) along two rows staggered and spaced 1/3 and 2/3 up into the field of the underlayment.

If HomeGuard ToughSkin® underlayment will be left exposed for more than three days or if severe weather is predicted before shingles will be installed, fasteners should be spaced 6-inches (153 mm) along the top, bottom and side laps and every 12-inches (305 mm) along two rows staggered and spaced 1/3 and 2/3 up into the field of the underlayment. The correct fastener placement is clearly marked on the surface of HomeGuard ToughSkin® Underlayment – for both installations.

In areas subject to high winds, underlayment fastening must comply with the high-wind attachment requirements specified in IBC Section 1507 or IRC Section R905.