

# TW METAL AND TILE

## UNDERLAYMENT

MANUFACTURED IN JOPLIN, MO

## PRODUCT DATA

### DESCRIPTION

Information included in this product data sheet was current at time of printing.

To obtain a copy of the most current version of this product data sheet, visit us online at [tamko.com](http://tamko.com) or call us at 800-641-4691.

**TW METAL AND TILE UNDERLAYMENT** is a fiberglass reinforced, self-adhering rubberized asphalt sheet membrane with a polymer film on the surface and a removable treated release film on the adhesive side.

- Fiberglass mat construction.
- Self-adhering rubberized asphalt.
- Adheres to cast-in-place concrete, pre-cast concrete masonry block, exterior gypsum sheathing, plywood, OSB, DensGlass®, felt-faced and foil-faced polyisocyanurate foam insulation, wood or metal surfaces.\*
- Polymeric film surfacing.
- Split treated release film.
- 5-year Limited Warranty and Arbitration Agreement.

**USES:** Provides secondary protection against water penetration after installation of the roof system.

- For use as an underlayment under metal roofs\*, mechanically fastened tile, slate, wood shakes, asphalt and composite shingles.
- When fasteners penetrate the TW Metal and Tile Underlayment membrane during installation of a metal roof system, the fastener manufacturer's recommendations must be followed for watertight integrity at the fastener penetration.

**UNDERLAYMENTS BEGIN TO AGE AS SOON AS THEY ARE EXPOSED TO NATURE. BUILDINGS EXPERIENCE AGING FACTORS DIFFERENTLY, SO IT IS DIFFICULT TO PREDICT HOW LONG UNDERLAYMENTS WILL LAST. THAT'S WHY TAMKO PROVIDES A LIMITED WARRANTY ON TW METAL AND TILE UNDERLAYMENT, THAT INCLUDES A BINDING ARBITRATION CLAUSE AND OTHER TERMS AND CONDITIONS WHICH ARE INCORPORATED HEREIN BY REFERENCE. YOU MAY OBTAIN A COPY OF THE LIMITED WARRANTY AT TAMKO.COM OR BY CALLING 1-800-641-4691.**

\*Before installing TW Metal and Tile under copper roofing, a design professional must be consulted to analyze the interaction of the building, roof deck, and roof assembly with regards to adequate temperature resistance.

### LIMITATIONS

**VENTILATION: TW METAL AND TILE UNDERLAYMENT SHOULD NOT BE APPLIED ON ROOF DECKS OVER UNVENTILATED SPACES OR WHERE SPRAY FOAM INSULATION HAS BEEN APPLIED DIRECTLY TO THE UNDERSIDE OF THE ROOF DECK; DOING SO MAY RESULT IN PREMATURE DEGRADATION OR PRODUCT FAILURE. A VAPOR RETARDING LAYER MAY RESULT WHEN TW METAL AND TILE UNDERLAYMENT IS INSTALLED OVER AN ENTIRE ROOF DECK. DESIGN OF THE ENTIRE ROOF SYSTEM AND THE AREA IMMEDIATELY BENEATH THE ROOF DECK (E.G. ATTIC, PLENUM, CONDITIONED SPACE) TO PROPERLY ADDRESS POTENTIAL MOISTURE AND HEAT ACCUMULATION IS THE RESPONSIBILITY OF A DESIGN PROFESSIONAL (E.G. ARCHITECT, ENGINEER) AND THE BUILDING OWNER.**

- Membrane or primer must not be applied to damp, frosty, or contaminated surfaces.
- Membrane must not come into contact with products containing coal-tar pitch.
- Must be applied at temperatures of 40°F and higher.
- Tested for High Temperature Resistance up to 240°F.\*\*

\*\*See TAMKO Technical Notice dated May 4, 2018 for testing information. Available at [tamko.com](http://tamko.com)

**WARNING:** Use of polyurethane foam insulation applied directly to the underside of a roof deck may cause premature degradation or failure of this asphalt roofing product. We are investigating compatibility of polyurethane foams with our asphalt building products. Chemical incompatibility, off-gassing after application and excess heat during and after application of polyurethane foams may affect the performance of asphalt and modified asphalt building products and metal fasteners used with those products.



**IMPORTANT SAFETY INFORMATION:** Do not install until all appropriate safety precautions have been read and understood. [The TAMKO Safety Data Sheet \(SDS\) is available at tamko.com/sds](http://tamko.com/sds). Always use appropriate fall protection equipment and wear appropriate personal protective equipment (PPE) when working with this product. Moisture, frost, debris or other material will decrease the traction and can cause slippery conditions when walking on the product. **Applicator safety is of utmost importance.**

**WARNING:** This product contains crystalline silica and formaldehyde. Crystalline silica and formaldehyde have been classified as "known human carcinogens" by the International Agency for Research on Cancer (IARC) and the National Toxicology Program. This product contains asphalt. The National Institute for Occupational Safety and Health has concluded that the fumes of heated roofing asphalt are a potential occupational carcinogen. The physical nature of this product may help limit any inhalation or dermal hazard during application and/or removal. However, physical forces such as sawing, grinding or drilling during demolition work and heating or burning may increase the inhalation or dermal exposure hazard of this product. Take precautions to prevent breathing and contact with skin.

**TAMKO**<sup>®</sup>  
**BUILDING PRODUCTS**

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[tamko.com](http://tamko.com)

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### TECHNICAL INFORMATION

UL Prepared Roofing Accessory

Independently tested for compliance with: ASTM D1970

Florida Building Code Approved: FL12328

Miami-Dade County Florida Approved: NOA 17-0531.01 Expiration: 07/05/2022

### PRODUCT DATA

Roll Size <sup>†</sup>	200 sq. ft.
Roll Coverage <sup>††</sup>	179.82 sq. ft.
Roll Dimensions <sup>†</sup>	39 3/8" x 61'
Rolls per Pallet	25 rolls

<sup>†</sup>Subject to manufacturing variation

<sup>††</sup>When applied according to application instructions

### TYPICAL PHYSICAL PROPERTIES

Test	ASTM Standard	Minimum Physical Properties
Adhesion to Plywood at 75°F	ASTM D1970	15 lbf/ft. width (min)
Moisture Vapor Permeability	ASTM E96 (BW)	0.05 perms (max)
Air Permeance ( $\Delta P=75$ Pa)	ASTM E2178	<0.0005 L/s·m <sup>2</sup> (<0.0000 CFM/ft <sup>2</sup> )
Maximum Load	ASTM D1970	30 lbf/in
Elongation Modified Bitumin Portion	ASTM D1970	40%
Low Temperature Flexibility	ASTM D1970	-20°F
Thickness	ASTM D1970	40 mils



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