

# TRI-FLEX<sup>®</sup> 15 Synthetic Underlayment

Synthetic Performance Alternative to #15 Felt

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TRI-FLEX<sup>®</sup> 15 synthetic underlayment exceeds the requirements of ASTM D226 type I and II and offers the benefits of a synthetic to traditional #15 felt users. Its higher coverage per roll means it goes down quickly. Because it is 10x stronger than #15 felt, costly blow offs are prevented. The product is mechanically fastened and may be used in conjunction with GCP self-adhered underlayments or alone.

It is totally recyclable, and contains post industrial recycled polymers, so it contributes to sustainability and LEED.

TRI-FLEX<sup>®</sup> 15 underlayment acts as a secondary watershedding material below mechanically attached roof coverings. The product may be exposed for up to 60 days and may be used with asphalt shingles and most other roof coverings.

## Product Description

TRI-FLEX<sup>®</sup> 15 underlayment is an engineered woven fabric, coated on both sides with polypropylene. The proprietary resin formula used in the walk and deckside surfaces create a slip resistant surface.

TRI-FLEX<sup>®</sup> 15 underlayment is available in 10 sq rolls (48 in. wide x 250 long).

## Product Advantages

- Improved Slip Resistant Coating
- Lighter and covers more area
- Stronger and more durable
- Facilitates faster and easier installation
- Suitable for use under all major roof coverings
- Custom Logo Printing Available
- 25 Year Warranty

## Features & Benefits

Major benefits of TRI-FLEX<sup>®</sup> 15 underlayment vs #15 felt include:

- Stronger - Its 10x stronger and prevents blow offs and tears in windy conditions
- Higher Coverage per Roll - A 10 sq roll is 67% lighter than #15 felt, and covers 2.3 times the area
- Fewer Laps and Fasteners - 30% more coverage per side lap than felt
- Sustainable - TRI-FLEX<sup>®</sup> 15 underlayment is 100% recyclable, and contains post industrial recycled materials, and contributes to sustainability and LEED
- Excellent temporary dry in - May be exposed for up to 60 days

- Versatile – Suitable for use under asphalt shingles and most other major roof coverings
- Custom Logo Available – The product can be printed with a customer logo. Minimum order amounts apply. Please contact the GCP sales representative for details.
- Local technical support – TRI-FLEX® 15 underlayment is backed by a team of local technical support personnel that help ensure every application goes smoothly.

## Code Approvals

- Complies with AC-188 Acceptance Criteria for Roof Underlayments.
- Meets the requirements of Florida Building Code, Approval
- Complies with ASTM E108/UL 790 for use in the installation of Class A asphalt glass fiber mat shingles and Class C asphalt organic felt or metal shingles
- Meets ASTM D226 physical requirements of Type I and Type II

## Precautions and Limitations

- Consistent with good roofing practice, always wear fall protection when working on a roof deck.
- Slippery when wet or covered by frost, debris or dust.
- Do not fold over the roof edge unless the edge is protected by a drip edge, gutter or other flashing material.
- Check with the manufacturer of the metal roofing system for any special requirements when used under metal roofing. Do not install directly under roof coverings especially sensitive to corrosion, such as zinc, without providing proper ventilation.
- Do not install under copper, Cor-Ten®, or zinc metal roofing in high altitudes or in the desert southwest. These roofs can reach extremely high temperatures due to the low reflectivity, high absorption, and high conductivity of the metals.
- Provide proper roof insulation and ventilation to help reduce ice dams and to minimize condensation.
- Repair holes, fishmouths, tears and damage to product. TRI-FLEX® 15 underlayment does not self-seal open fastener penetrations.
- Do not use uncapped staples!
- Do not install fasteners through the product over unsupported areas of the structural deck, such as over the joints between adjacent structural panels.
- Do not stretch Do not use uncapped staples! underlayment during installation. The product should be pulled taut, but should not be stretched.

## Installation Guidelines

1. The roof deck must be swept clean and be smooth and dry before installation begins.
2. TRI-FLEX® 15 underlayment is laid horizontally (parallel to eave), starting at the bottom of the roof, with printed side up and with 4-inch side laps and 6-inch end laps. Side laps run with the flow of water in a shingling manner.
3. TRI-FLEX® 15 underlayment should not be used at slopes less than 2:12, provided the slope is also acceptable to the primary roof covering. On slopes of less than 4:12, TRI-FLEX® 15 underlayment should be half-lapped a full 24 inches over the underlying course, shingle style.

1. TRI-FLEX® 15 underlayment is attached to the roof with roofing nails or staples both having 1-inch diameter plastic/metal caps, spaced at 8 inches on center (oc) on both side and end laps in normal wind zones. In high wind zones or coastal applications, double the fastening to 4 inches oc. In all cases fasten at 24 inches oc down the middle of the roll in the field of the roof. Fasteners may be hand or machine applied. Staples without caps cannot be used.
2. Where seams or joints require sealant or adhesive, use a high quality, low solvent, asbestos free plastic roofing cement meeting ASTM D4586 Type 1, Federal Spec SS-153 Type 1 (Asbestos Free). Consult your local GCP representative for more details.
3. Install drip edge at eaves under underlayment and at rake over underlayment.
4. Installation of the roof covering can proceed immediately following underlayment application. TRI-FLEX® 15 underlayment cannot be used as a primary roof covering. The product is not designed for permanent outdoor exposure. The installation of the final roof covering should take place within 60 days.
5. For additional protection lay a single length of TRI-FLEX® 15 underlayment vertically in valleys and on hips prior to installing metal flashings (if used) and before installing horizontal underlayment. Return TRI-FLEX® 15 underlayment up all abutments at least 12 inches (more in heavy snow areas). Secure and trim to suit.
6. Prior to loading roofing materials on TRI-FLEX® 15 underlayment it is recommended that roof jacks, toe-boards or a storage platform be secured to the underlying roof deck to prevent slippage of stored materials on steep sloped roofs. See OSHA Regulations (Standards – 29 CFR), Fall Protection Systems Criteria and Practices – 1926.502.
7. Check local building code to ensure compliance in your area, as local building codes may vary.

## Performance Properties

PROPERTY	TRI-FLEX® 15	TEST METHOD
Color (front/back)	Black/Black	
Weight	20 lbs (10 sq roll)	
Tear strength	MD 36 lbs; CD 36 lbs	ASTM D4533
Accelerated aging	Pass (no damage, cracking, chipping)	ICC-ES AC48
Ultraviolet resistance	Pass (no peeling, chipping, cracking, flaking)	ICC-ES AC48
Water ponding	Pass (no percolation)	ASTM D779
Pliability	Pass (no cracks)	ASTM D226
Water transmission	Pass	ASTM D4869
Tensile strength	MD 66 lbs; CD 49 lbs	ASTM D828
Thickness	7 mils	ASTM D3767

## Product Data

	10 SQ ROLL
Roll length	250 ft (76.2 m)
Roll width	48 in (1.05 m)
Roll size	1,000 ft <sup>2</sup> (92.9 m <sup>2</sup> )

Roll weight	20 lbs (9.1 kg)
Rolls per pallet	48

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