

# GRACE SYN 15™

## Synthetic Replacement for #15 Felt

Grace SYN 15™ synthetic underlayment exceeds the requirements of ASTM D226 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 GRACE self adhered underlayments, or alone.

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

Grace SYN 15™ underlayment acts as a secondary watershedding material below mechanically attached roof coverings. The product may be exposed for up to 30 days, and may be used with asphalt shingles and most other roof coverings.

### Product Description

Grace SYN 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.

### Product Advantages vs. #15 Felt

- Stronger
- More slip resistant
- Better Coverage per roll, greater productivity
- Suitable for use under all major roof coverings
- 10 Year Warranty

Grace SYN 15™ underlayment is available in 10 sq rolls (48 in. wide x 250 ft long).

### Features & Benefits

Major benefits of Grace SYN 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**—Grace SYN 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 30 days

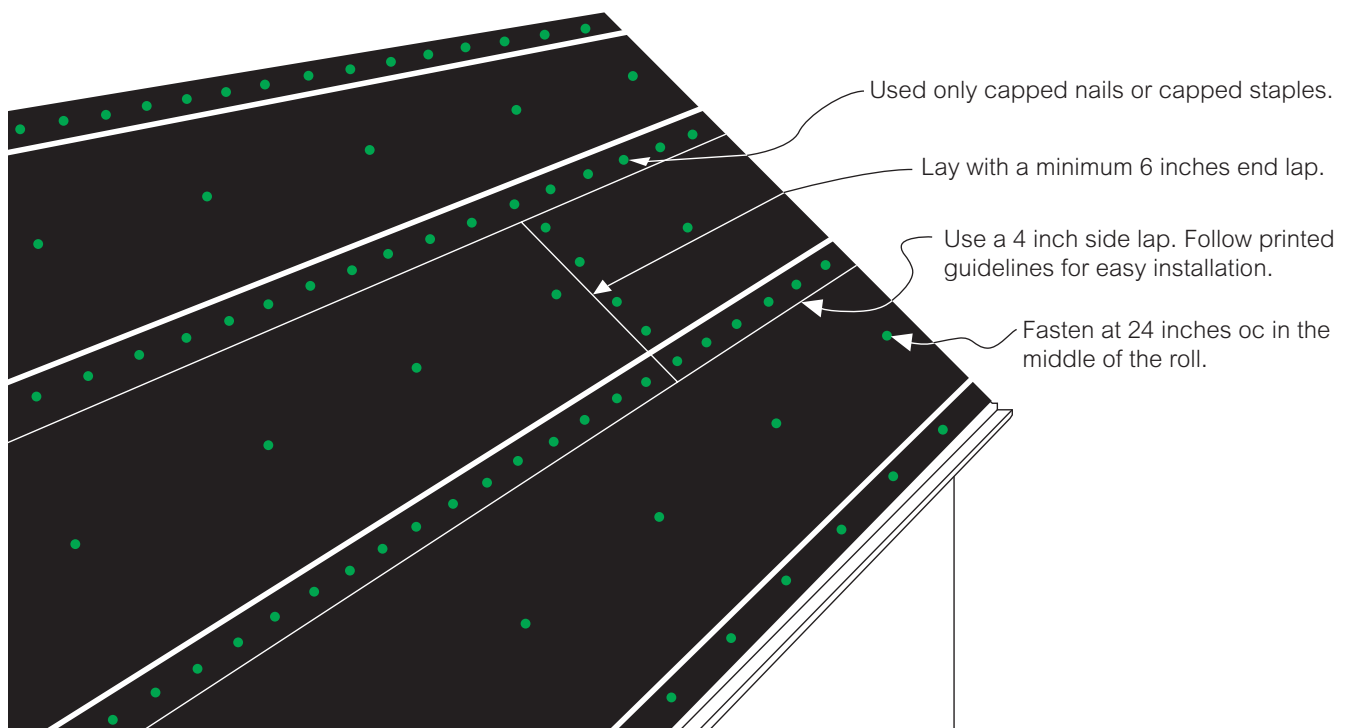


**Suitable for use under asphalt shingles and most other major roof coverings**

**Grace technical support**—Grace SYN 15™ underlayment is backed by a team of local technical support personnel that help ensure every application goes smoothly.

**Installation Guidelines**

1. The roof deck must be swept clean and be smooth and dry before installation begins.
2. Grace SYN 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. Grace SYN 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 3:12, Grace SYN 15™ underlayment should be half-lapped a full 24 inches over the underlying course, shingle style.
4. Grace SYN 15™ underlayment is attached to the roof with roofing nails or staples both having 1-inch diameter plastic/metal caps or other fasteners approved by Grace, 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. Capped nails and staples may be hand or machine applied. Nails or staples without caps cannot be used.
5. 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 Grace representative for more details.
6. Install drip edge at eaves under underlayment and at rake over underlayment.
7. Installation of the roof covering can proceed immediately following underlayment application. Grace SYN 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 30 days.
8. For additional protection lay a single length of Grace SYN 15™ underlayment vertically in valleys and on hips prior to installing metal flashings (if used) and before installing horizontal underlayment. Return Grace SYN 15™ underlayment up all abutments at least 12 inches (more in heavy snow areas). Secure and trim to suit.
9. Prior to loading roofing materials on Grace SYN 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



## Product Data

	<b>10 sq Roll</b>
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	35

## Performance Properties

<b>Property</b>	<b>Grace SYN 15™</b>	<b>Test Method</b>
Color	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

CFR), *Fall Protection Systems Criteria and Practices* – 1926.502.

10. Check local building code to ensure compliance in your area, as local building codes may vary.

## Code Approvals

- Complies with AC-188 Acceptance Criteria for Roof Underlayments ICC ESR-3509.
- Meets the requirements of Florida Building Code, Approval #FL16038.1-R0
- 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 (No. 15 asphalt felt)

## 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. Grace SYN 15™ underlayment does not self-seal open fastener penetrations.
- Use nails and staples ONLY with plastic or metal caps.
- 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 Grace SYN 15™ underlayment during installation. The product should be pulled taut, but should not be stretched.

[www.graceresidential.com](http://www.graceresidential.com)  
[www.graceconstruction.com](http://www.graceconstruction.com)

**For technical assistance call toll free at 866-333-3SBM (3726)**

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