

# UniBond™ ST

Polyester-Faced Adhesive Tape



## OVERVIEW & FEATURES

UniBond ST is a high-performance, fatigue resistant, self-priming, 100% solids tape designed for use with Garland cold-process restoration systems. This versatile tape will instantly seal and reinforce seams and penetrations on a variety of metal and single-ply roof systems and components. UniBond ST bonds aggressively to a variety of surfaces, including properly prepared EPDM, TPO, Hypalon, aged PVC, CPE, metal roofs, brick, concrete, and masonry. It is formulated with synthetic resins, thermoplastics, and non-curing rubber with a woven polyester facing.

UniBond ST is used on single-ply and metal roofs in conjunction with the CPR™ White, Revitalizer™ Metal, White-Knight®/White-Stallion®, White-Knight®/White-Stallion® Plus, and cold-applied roof maintenance systems to seal roof joints, seams, tears, flashings, copings, skylights, and gutters. Extremely flexible, with no memory, UniBond ST conforms to virtually any shape. UniBond ST seals to itself so it can be cut and folded around an object. A UV stable finish coat must be applied to UniBond ST on the same day - do not expose the UniBond ST fabric surface to the elements.

**Seals & Reinforces** – UniBond ST seals and reinforces seams and penetrations, fusing at a molecular level to a variety of substrates to create an instant, airtight and watertight barrier. This product forms a durable, monolithic restoration system when combined with Garland cold-applied roof coating systems: CPR White, Revitalizer Metal, White-Knight/White-Stallion, or White-Knight/White-Stallion Plus.

**Multi-Purpose & User-Friendly** – Can be used in various applications such as sealing seams, approved flashing details, and numerous maintenance repairs. Installation is as easy as applying a piece of tape. UniBond ST's built-in primer and advanced micro-sealant adhesive technology enables instant adhesion on contact. The versatility and trouble-free application makes UniBond ST an invaluable tool for maintenance and roof restoration.

**Resilient & Flexible** – The 100% solids content prevents shrinkage, aiding the long-term yield of 500% elongation and enabling UniBond ST to accommodate movement.

**Service Temperature** – UniBond ST maintains its physical properties at temperatures as low as -70°F (-56.6°C). This allows the tape to maintain a watertight seal even in extremely cold temperatures.

## APPLICATION

**Surface Preparation** – Substrates must be clean and dry. Remove all moisture, dust, dirt or other foreign contaminants. Remove oil and grease, etc. with mineral spirits or a non-residue cleaner such as

acetone or lacquer thinner. For larger jobs, power wash the surface with TSP or Simple Green. UniBond ST will not adhere to silicone sealants or silicone treated surfaces, water-proof treated surfaces, anti-stain treated surfaces, waxes, oily surfaces, dirt, or other loose elements on a surface.

Due to the variety of surfaces and unpredictable nature of certain substrates, a field test is recommended to determine the adhesion of UniBond ST.

**Application** - UniBond ST should be applied at a minimum application temperature of 40°F (4.44°C) and rising. To install UniBond ST, remove the release liner gradually to prevent contamination of the adhesive prior to application. Apply UniBond ST uniformly to prevent wrinkles and other discrepancies. **DO NOT STRETCH.**

Apply pressure starting at the center of the tape and work toward the outside edge with a steel roller or hands to activate the bonding process. Verify edges are tightly adhered to the surface.

**Finish Coat** - After the tape is properly adhered, the first coat of an approved Garland cold process roof coating must be applied over the polyester facing on the same day. Apply coating a minimum of 2 inches beyond the edge of the tape on each side. For specific coating application rates, see system application guidelines.

## STORAGE

UniBond ST will not degrade in normal warehouse storage. In time, due to the aggressive adhesion of this product, the release liner may become difficult to remove. For this reason, the recommended shelf life is two years. Store indoors, out of direct sunlight between 60-80°F (15.6-26.7°C). Always rotate stock.

## PRECAUTIONS

- Clean skin with mineral spirits, then wash thoroughly with soap and water.
- May be harmful if swallowed - do not induce vomiting; contact physician immediately.
- Keep away from heat and flames.
- Do not expose adhesive tape rolls to moisture.
- Do not use in freezing conditions.
- Do not apply the adhesive tape in the rain or over ice.

# UniBond™ ST

Technical Data	UniBond ST
<b>Tensile Strength</b>	4500 psi
<b>Elongation</b>	500%
<b>Low Temperature Flexibility</b> Pass ½ in. radius	-70°F (-56.6°C)
<b>Service Temperature</b>	-30 - 200°F (-34.4 - 93.3°C)
<b>Permeance</b> (ASTM E 96B)	.001 perms
<b>Adhesion</b>	> 20 lbs./in.
<b>Shrinkage</b>	No measurable shrinkage after 14 days
<b>Nominal Thickness</b>	30 mils (1 mm)
<b>Shelf Life</b>	2 years
<b>Size</b> length width*	50 ft. (15.24 m) 4 in. (10.16 cm)
<b>Packaging</b>	6 rolls per case*, 300 L/ft.

\*Available for special order in 6 in. or 12 in. widths, number of rolls per case will vary with roll size.

For specific application recommendations, please contact your local Garland Representative or Garland Technical Service Department.

For more information, visit us at: [www.garlandco.com](http://www.garlandco.com)

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Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. A ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or Garland Corporate Office for more information.

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