

# **Teakdecking Systems**



# **SIS 440 Teak Deck Caulking**

# **The Proven Leader for Marine Applications**





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SIS 440 TEAK DECK CAULKING

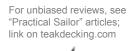


SIS440 Caulk is the proven leader in the marine industry and was developed mainly for teak deck seams. It is a one-part, paste-like neutral cure formulation and when exposed to moisture in the air, it reacts to form a tough, flexible solid rubber compound. The sealant does not sag during cure, and has excellent temperature stability and chemical resistance once cured. Because the sealant is neutral cure, it is non-corrosive to all substrates.





# **PRODUCT BENEFITS**





# Customers choose SIS-440 for these proven benefits...

Experience	More than 50,000 decks manufactured and installed in 35 years; 166 miles (267 km) of caulked seams per year. Well-tested and proven in hot or cold climates. Used by boat builders, boat repair yards, marinas, private boat owners, cruise ships, and ship chandleries.
One-Part Silane Polymer	Forms a solid rubber compound with highest rated UV resistance; excellent resistance to chemicals; superior temperature stability. Cures to provide better adhesion, longevity and appearance as compared to polysulfide, polyurethane and MS polymers.
Neutral Cure	Non-corrosive to all substrates; no damage to the surrounding environment/structures
Viscosity	Thixotropic paste which does not drip or sag; easy to work because it stays flexible.
Primer-free	One-step process saves application time; no solvents; environmentally friendly; safe for work environment.
Cure Time	Black – Ready for sanding after a minimum of 48 hours at 68°F (20°C). This is based on seams ¼"x1¼" (6.4mmx6.4mm), larger seams may require additional time. White & Gray – May take 8-12 days to fully cure (see "White and Gray Caulking: Installation Guidelines and After-Care Suggestions") Potentially decreases turnover time for projects.
Shrink/Waste	Minimum shrink; less waste
Tack-free	"Skins over" after 20-40 minutes; can be walked on next day typically; reduced damage to caulk before totally cured; easy to repair, less time required; caulk sticks to itself
Sanding	Easy to sand; will not clog sandpaper; improves project turnover time; more economical
Shelf Life	18-months (longest in the industry); increase product demand; economical and easier to stock and sell due to less waste of product
Seam width/ depth dimensions	Use in seams from 3 to 10mm wide and achieve first-class appearance; seam depth should be equal to or greater than the seam width; caulk must fill to bottom of seam; bond-breaker tape recommended for seams for 5mm (3/16") or deeper; full depth caulk seams extend teak deck life
Freight/Shipment	NON-HAZARDOUS; ships by airfreight or ground, so reduced cost for freight
Worldwide Support	Worldwide distributors and technical support; rapid response to teak decking and caulking questions

## **Safety and Reliability**

During cure, the sealant may irritate eyes. Care should be taken to read all caution labels and statements. Use with adequate ventilation.

SIS 440 Teak Deck Caulk is a high quality marine polymer which meets or exceeds Federal Specifications TT-S-00230C, TT-S-001543A, and American Society for Testing and Materials (ASTM) C920, and is manufactured in an ISO 9001 facility.

PROPERTIES		PHYSICALS			
Color	Black, White & Gray	Shore A Hardness	38-40		
Specific Gravity	1.2	Tensile Strength	300 psi		
Viscosity	Thixotropic Paste	Elongation	850%		
Tack-Free Time	20-40 minutes	Modulus @ 100%	85 lb.		
PACKAGING					
Туре	Cartridges	Sausages	5 GALLON (US) PAIL		
Volume	10.3 fl. oz. (305ml)	20 fl. oz. (600ml)	4.5 US gal. (17L)		

#### **Shelf Life & Storage**

Store in a dry area at temperatures above 32°F (0°C) and below 80°F (26°C). Do not expose to direct sunlight, extreme heat, or freezing. The sealant has a shelf life of 18 months from manufacture date. See "BEST USED BY" date on packaging.

#### **Handling Suggestions**

- 1) Read and follow instructions printed on the packaging.
- 2) Paint and varnish do not adhere well to caulking. We do not recommend their application to caulking.
- Should the packaging in which the sealant was shipped is not completely emptied, simply extrude approximately 1/8" beyond the tip, let cure, and the ready-made plug can be pulled out easily when use is required again, up to two weeks.
- 4) **CLEANUP:** Use mineral spirits to clean caulk from your hands and tools. **NEVER USE MINERAL SPIRITS IN TEAK SEAMS** (acetone only).

#### **Other Applications\***

- · Bedding deck equipment/hardware
- Bedding parts (steps, pads, etc.)
- · Caulk seams in other wood decks
- Edges around sealed windows
- Construction

NOTICE: The information herein is based on data available to us, and is believed reliable. Since the use of this product is beyond our control, there is no expressed or implied warranty of results, or that such use will not infringe on any patents. The product is furnished on the condition that the user will determine its suitability, and that the user assumes all legal responsibility, and that neither seller nor manufacturer shall be liable for any injury, loss, damage or consequential loss, arising from use or inability to use the product. We make no guarantee that the suggested health and safety precautions will be adequate for all individuals and/or situations.

NOTE: SIS440 is not designed for use under the waterline. \*Contact us for further details

# The Proper Composition of a Caulk Seam

#### **Preparation of Seam**

All surfaces of the seam must be dry, dust free, and cleaned with acetone on a rag to remove any contaminants that would thwart proper adhesion. Isopropyl alcohol may be used, but acetone is strongly recommended. Do not use denatured alcohol, as this will cause separation of the seam from the substrate after curing.

#### Seam Design

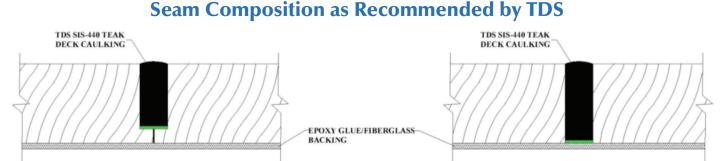
Three sided adhesion will limit the amount of movement that a seam can accept before failing. <u>TDS recommends</u> applying bond breaker tape at the base of every seam to create two-sided adhesion, which allows the sides of the seam to work independently from the bottom, increasing flexibility.

#### **Complete Filling of Seam**

Seam must be completely filled from bottom to top, without voids or air bubbles, allowing sealant to make full contact to sides of seam. This is achieved by forcing the tip of the caulk gun close to the bottom of the seam when filling. Drag a putty knife at a 30-degree angle to smooth the excess caulking into the seam applying pressure to slightly bend the blade. Scrape up the excess caulk leaving the caulk bead proud of the deck to allow for approximately 5-10% product reduction. Please review sealant application instructions for the proper procedure to minimize chance of seam failure.

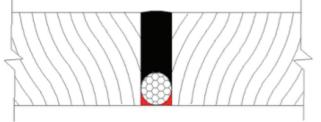
#### **Atmospheric Conditions during Curing**

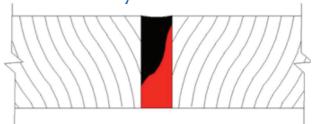
Sealant should be applied at a time of day when the seam surface is cool and will not experience extreme temperature or moisture changes. blade. Scrape up the excess caulk leaving the caulk bead proud of the deck to allow for approximately 5-10% product reduction. Please review sealant application instructions for the proper procedure to minimize chance of seam failure.



Use of polypropylene bond breaker tape in seams of 6mm and deeper. It aids to achieve 2-sided adhesion. The bottom of seam must be flat and square. The caulk seam should be able to move at the base of the seam, as the deck flexes and works.

# Seam Composition <u>NOT</u> Recommended by TDS





Use of a backer rod does not ensure a good, tight seal at the base of the seam. Absence of a full backing enables panels to flex prior to installation. This flex could affect integrity of caulked seams. A proper caulk seam must be filled entirely to the bottom.

#### **IMPORTANT – Read this first!**

Seams must be clean and dry. Surrounding wood should have 12% moisture or less. **DO NOT ATTEMPT TO CAULK WET SEAMS.** Work under cover when possible, otherwise only open as much seam as can be cleaned and re-caulked without additional moisture or contamination getting into the seams.

When caulking, the ambient temperature should be between 40 - 90°F (5-33°C). In the tropics, work in a shaded area to prevent "bubbling" of caulk due to extreme deck temperatures. At lower temperatures, additional curing time is required because there is typically less humidity.



1. Old or damaged caulking can be removed with a razor knife, taking care not to damage the wood fiber.



**3.** Other more precise electrical tools can be used to cut out the old caulking, and in some instances, deepen the seams.





5. For larger re-seam projects a circular saw or router can be used to obtain clean and fresh wood.



2. Reefing hook scrapes out caulk sealants once they have been freed using a razor knife. It leaves minimal material residue, so the seam can be easily sanded.



4. Note: Saw safety cap should be put back on before using. Cap was removed only to show blade. A seam saw can be used especially when seam must be deepened to a minimum



**6.** Sand the wood on sides of the seams with 40 – 80 grit sandpaper.





7. Use a brush to loosen debris inside the seam.



**8.** Prior to de-oiling, the dust particles should be removed by vacuum or compressed air.





**9.** Thoroughly clean and de-oil the seams by wrapping a clean rag around a 6" putty knife (or similar flat surface). Moisten rag with acetone. Use a back and forth motion, rotating the rag frequently. Let acetone dry, then caulk immediately after applying bond breaker tape (fine line plastic tape).



**10.** Make sure that the seams are clean and even before the bond-breaker tape is inserted. An uneven bottom will make the tape stick to the sides and will have negative consequences for the adhesion of the caulk. Never use tape that is too wide for the seam.



**11.** DO NOT USE PRIMER. For best results, a bond breaker tape should be applied to the bottom of a 3/16" (5 mm) or deeper seam before caulking. It prevents the caulking from adhering to bottom of the seam. A second roll of tape or the tape core can be used to guide the tape into the seam.

Make sure the sausage or cartridge has a temperature above 64°F (18°C) to improve the viscosity of the caulk.



**12.** Cut the tip at a slight angle with a razorblade. Insert sausage or cartridge into gun.

- If using a cartridge, first cut the tip at an angle and then puncture the foil seal.
- If using a sausage, cut at clip, making sure there are no obstructions, so material can flow freely. Pinch tip with pliers so it will fit into seam.



13. Ensure caulking goes to bottom of seam, allowing it to flow upward until crowning above the top of the seam. Smoothly pull the gun along the seam toward the applicator. Avoid starts & stops or changes in direction that may entrap air. NOTE: If using pneumatic caulk gun do not exceed 80psi to prevent overriding the plunger and injecting air into the caulk.



15. Allow caulking to cure for at least 48 hours (longer in cold weather and for larger seams). White and grey caulking need at least 8 to 12 days to fully cure. See "White & Gray Caulking" section for more detail. Removal of excess caulking can be done by Fein tool or sharp chisel.



14. Immediately after application, draw a flexible putty knife over the seam at a 30° angle. Apply enough pressure to make sure caulking fills to bottom of seam, but leave the caulk high to allow for slight settling. Make sure seam has no entrapped air after application. Do not disturb until fully cured.



**16.** When caulking has cured, sand surface of deck to remove excess caulking using 80-100 grit sandpaper with a soft pad on a grinder.

#### **Installation Guidelines and After-Care Suggestions**

Teakdecking Systems **SIS 440 Teak Deck Caulking** in white and gray offers the same performance results as black caulk, but their different pigmentation formulas make it necessary to adapt procedures for application, cure time, sanding, and general maintenance. The lighter colored caulks are not as "forgiving" as black caulk and subject to environmental staining and possible discoloration.

**IMPORTANT:** Follow all instructions as written on the cartridge or foil "sausage" packaging. The information below is supplemental and does not replace the instructions.

#### **Installation Guidelines**

#### **Preparing and Cleaning the Seams**

For all SIS 440 Teak Deck Caulking products from Teakdecking Systems (TDS), special care is required to properly prepare and clean the seam wall prior to caulking.

# Work under cover when possible, otherwise only open seam as much as can be cleaned and re-caulked in the same day.

- 1) Final sanding with a TDS Seam Sander or similar tool should fair the seam's surfaces, roughen remaining mill marks or saw 'polishing,' and also remove any wood grain filaments.
- 2) Thorough cleaning with a vacuum or air blower is mandatory to remove sawdust or other contaminants. Then the seams must be carefully cleaned with lint-free clean cotton rags and acetone. Contaminants left in the seams may show within the cured white and gray caulk (not as noticeable in black caulk).

*Re-Seam Preparation:* **Old residue must be fully removed** and this is best accomplished with a seam saw or router. ATTENTION: Butt joints must be cut back to new wood.

*Bedding Compounds:* Residue may be present on a new deck if installed in a bedding material. This residue must be fully removed from seams.

Seam Moisture Content: Must be 12% or less in surrounding wood. Do not caulk wet seams.

3) After all residue has been removed from the new or re-seamed deck, continue with seam prep instructions to sand, vacuum, and de-oil seams before starting the caulking. Failure to take these steps may cause seam failure.

**CAUTION:** Do not use wood primers intended for other caulk products as that will defeat the adhesion of the product, void the warranty, and may cause staining within the cured caulking. Most caulk applications to new teak will only require following our detailed "SIS 440 Application and Maintenance Instructions." (See our Products Catalog or contact us.) However, we recommend use of a bondbreaker tape in the base of a seam (>3/16" or 5mm).

#### **Filling the Seams**

- 1) To facilitate filling, cut tip of nozzle on an angle, puncture foil seal, then squeeze tip with pliers so nozzle fits into seam.
- 2) Fill seams from the bottom up and slightly overfill so that caulk is proud (1-2mm) of the deck surface after spooning and cures in this manner. If caulking cures below the deck surface it may trap contaminants within the caulk.

For deeper seams (>¾" or 20mm): Careful attention is needed to completely fill caulk into the bottom of the deep seam, and a minimum of 2mm of caulk should be proud of the surface.

#### **Cure Time and Sanding**

Cure time is a function of (1) cross-sectional dimensions of the seam and (2) ambient temperature and humidity of the work area. Conditions of cold or very dry air increase cure time. Generally, the caulking cures from the top down at a rate of about 1 to 2 millimeters per day. A seam of 1/4" (6.4mm) under normal conditions (approximately 74°F/23°C at 50% relative humidity) will be ready for sanding in 8-12 days. When using white and gray caulk, allowing additional curing time is always helpful if the situation permits. For larger seams (1/4"-3/4" or 6.4-19.2mm) or in colder, dryer conditions, a minimum 12-day cure is recommended.

### **Problems Caused by Premature Sanding of Caulk Seams**

Premature sanding of caulking that is not fully cured may result in shrinkage, deformation, and 'dragging' or wrinkling of the caulk surface. It may also cause premature seam failure. This must be avoided because uncured caulking will absorb the sanding dust as well as other contaminants, causing discoloration and potential compromising of the seam. When sanding white and gray caulk seams, it is helpful to start with 80 grit and then 'finish sand' with 100 or 120 grit sandpaper. This 'fine sanding' helps to smooth the caulk and will assist in preventing contaminants from accumulating in the small crevices.

# After-Care Suggestions for Caulk Maintenance, Cleaning, and Repair

#### Maintenance

Light colored deck caulking is like other light colored accessories such as boat cushions and upholstery. Dirt and contaminants will show more and require more maintenance.

Caulk is a flexible material, so seams may raise and lower depending upon the moisture content of the teak. If seams remain high (relative to deck surface level) for more than six months it may be necessary to sand or cut the seams to plank level. Walking on high seams creates pressure and may cause damage to seams.

Deck should be evaluated periodically and a light sanding may be necessary to maintain good appearance and will actually extend the life of the deck.

#### Cleaning

Teak releases oil naturally and this oil will discolor caulk, showing more on white and gray caulk. This teak oil is most prominent on new decks and will diminish as the teak ages. Other oils, sealers, and coatings are likely to show more against light colored caulk too. Dirt, soot, or oily stains left on a deck for extended periods of time may leach into the caulking and cause staining and discoloration. Note: Varnish will **NOT** properly adhere to **ANY SIS 440 Teak Deck Caulking**.

- Normal Cleaning Use TDS ECO-100 (Powder) and ECO-300 (Liquid) Teak Cleaners, designed to be used as often as desired. They are both U.S. Clean Marina and MARPOL compliant for safe discharge into any waterway or marina. When possible, use these cleaners with medium grit scrubbing pads (e.g. Scotchbrite-type "red" medium grit). These are very effective and will help to smooth the deck. Regular scubbing across the grain is sufficient between sandings. Problematic stains such as diesel, wine, fish blood, etc. must be cleaned immediately with the ECO-100 or ECO-300 Teak Cleaners, or if this is not possible then spot cleaners such as K2R Marine Cleaner or Dawn dish soap can also be effective.
- 2) Stubborn Stains A light sanding of the seam with 80 grit sandpaper may remove stain(s). For best results, finish the seam with 100 or 120 grit sandpaper to ensure a smoother finish on the caulk surface.

#### Repair

For particularly stubborn stains that cannot be removed, or if the caulk is gouged/damaged, it is easy to make a repair. Cut out a small amount of caulk in a "V" shape; wipe with a clean lint-free rag soaked in acetone; then tape and re-caulk the area with **SIS 440 Teak Deck Caulking**. It will strongly adhere to the old **SIS 440 Teak Deck Caulking**, making it impossible to separate the old and new caulk areas once cured. To help blend the color, you may lightly sand the repaired area after curing or simply wait. With time, repairs will be almost impossible to see.

#### **Inspecting the Deck**

Hose down the deck with water. As the deck is drying, observe wet spots that do not dry completely. These are areas that may need work, i.e., new plugs, more caulk repair, etc.

#### **Repairing/Replacing Damaged Boards**

- To repair a small crack in a teak batten, use a razor blade knife to clean and fill the crack with 1:1 **TEAKDECKING SYSTEMS AP-100 All Purpose Epoxy.**
- To repair a large crack or chip, router out the damaged area and insert a piece of teak (Dutchman). Fasten with 1:1 TEAKDECKING SYSTEMS AP-100 All Purpose Epoxy.

#### **Re-seaming**

If caulking is low or not adhering to the side of deck planks, seam repairs are needed. This requires removing the old caulk from the seams and preparing the wood for new caulk. This process can be labor intensive and we recommend following these steps:

- Perform light sanding of the decks with 60-80 grit depending on condition to create a smooth, even deck surface. This is needed if a saw or router is used to cut out the old caulk from seams. A smooth surface makes it easier to perform the final sanding and detailing because it will minimize the amount of caulk that could get into the grooves of weathered deck and will minimize the amount of sanding needed after the re-seaming is complete.
- 2) Removed old caulk by one of these methods:

Option 1: Use a razor knife to cut along the edge of the caulk. Then using a caulk removal tool (or "reefing hook") dig out the caulk from seams.

Option 2: Use a router or circular saw to clean out the seam. This method requires more skill.

- 3) Once the caulk is removed, make sure both sides of the seam have dry wood at least 5mm (3/16") deep.
- 4) Vacuum all dust from the seams and wipe the seams with acetone before applying caulk. Seams must be clean for adhesion of the caulk.
- 5) Use Bond Breaker (fine line) tape if the seam has a rabbet and a minimum depth of 5mm (3/16"). Please see "Proper Composition of a Caulk Seam."
- 6) Recaulk using TDS SIS440 Caulk. Follow all application instructions listed on package and in this guide.

#### NOTE: Under no circumstances should moisture or water be let into the seams during this process.

#### **Plugging Repairs**

Old plugs or cracked plugs can be removed using a small chisel to break them out of the bored hole; re-bore the hole using a hole cutter. If sides of holes are damaged, increase the diameter of the cutter. Insert new plug aligning its grain direction with the teak grain, applying **TEAKDECKING SYSTEMS AP-100 All Purpose Epoxy** completely around the new plug. Let epoxy cure before cutting plug. Cut in grain direction leaving extra wood on top surface for "shaving" or sanding. This will ensure plug remains flush and not below surface.

#### **Resurfacing Deck**

Completely sand the deck using an 8" Grinder or a 6" Dual Action sander, with a soft sanding pad and sanding disc.

**NOTE:** The grit of the sandpaper to be used depends on the condition of the deck. If the deck is in bad condition, start with 40 grit and finish with 80 grit.

**IMPORTANT:** To avoid gouging the teak, hold the pad flat to the deck. Vacuum up the dust.

#### **Finish on Exterior Teak Decking**

We do not recommend any finish on exterior Teakdecking, but if a sealer is to be used, be sure to choose a brand that does not contain kerosene or other petroleum products, such as TDS Sealer & Protector or SEMCO TEAK (contains petroleum and will cause caulk to swell). SEALER. Any sealer containing a petroleum distillate may cause damage to the caulking over time.

**Before applying any sealer**, clean teak or other wood items well with one of the **ECO Cleaners**. Make sure all grease, dirt, and oil is removed from the teak. After cleaning, rinse the teak thoroughly with fresh water and let it dry. **Do not use sealer on a damp or wet surface or in direct sunlight during the heat of the day.** 

#### **Wood Moisture Content**

Teak for decking applications should have 12% moisture content (MC) to create a strong bond between the fresh wood surface and SIS440 Caulk. Often, moisture content of fresh imported wood is greater than 12%, commonly measuring 18%. If caulk is applied to this high moisture content wood (wet wood) the adhesion of the caulk will diminish as the wood naturally dries.

#### **Transport with Fully Cured Seams**

The moving and transporting of the teak panels should be done very carefully. This is especially true if panels have been constructed without any backing to stabilize them. If the seams on the panels have not fully cured yet, bending of the panels can stretch the uncured SIS440 and leave gaps and splits in the seams after the panels have been installed. Avoid bending uncured panels.

#### **Proper Glue Choice**

TDS FFE 200 Epoxy is recommended for gluing because use of other glues can negatively affect adhesion. If singlecomponent glue such as Sika 298 is used it is critical to remove 100% of residue from the seams. This glue reacts with SIS440 Caulk and creates adhesion issues inside the seams. (2) Single-component polyurethane glues are very flexible and allow the movement of the wood which negatively affects adhesion issues.

#### **Cutting & Sanding Methods**

We recommend cutting away any excess caulk with a sharp chisel or other suitable tool, before proceeding with the sanding. However, in order to avoid undesired sanding marks on the fresh seams, we recommend cutting away the excess caulk to start the sanding AFTER WAITING 72+ HOURS. Final sanding paper to use on Gray and White seams is 100-120 grit.

#### Shrinkage for White & Gray Caulk

SIS440 Caulk in white and gray will shrink somewhat when applied. To avoid having "negative seams," we recommend leaving 1 or 2mm extra caulking above a fresh seam. This does not imply that the customer should not spoon the product once applied. If spooning is not performed, then the adhesion of the "rubber" will be reduced. If more than 1-2 mm extra caulking remains on top of the seams, this will negatively affect the full curing.

#### **Curing Time for White & Gray Caulk**

The curing time for SIS440 Caulk in white and gray is stated as 12 days, but the curing time can be affected by varying temperatures and humidity. SIS440 Caulk requires humidity to fully cure. If the application takes place during winter and the humidity drops to low levels because of freezing, then curing will slow down drastically. The use of heaters will not promote the curing, unless there is adequate humidity. Further, heaters can reduce the humidity and curing may stop. If caulk is applied outdoors with freezing temperatures outside, then curing will take much longer than the usual stated period of 12 days. Reminder: The depth and width of the seams will affect curing time too.

#### **Mold & Fungus**

SIS440 Caulk in White and Gray contain anti-mold ingredients, but if the seams are sanded rough and left in humid conditions mold and fungus may grow. Dust residue may gather in the small pores of the "rubber" and will allow mold to grow. This is the reason why we recommend sanding fresh white or gray caulk with a fine P100 or P120 sandpaper.



# Remove caulk or other flexible materials from seams



Sand seam walls before caulking seams



Re-caulk using sausages



#### **Improve seams**

# Caulk Removal Tool ("Reefing Hook")

The Caulk Removal Tool can be used before re-caulking to remove caulk or other sealants from a seam. A razor knife should be used to free the caulk from the sides of the seam. The Caulk Removal Tool will remove most of the caulking, leaving minimal material for final hand sanding with the Seam Sander.

- Specially designed, stainless steel construction
- Ergonomic rubber handle
- Specially designed for long service; can be re-sharpened

#### Seam Sander

Designed for vertical sanding of seam walls to remove old material before recaulking, the Seam Sander ensures the best possible preparation for new caulk to bond to the teak. Use it to remove final residue of caulking, leaving a totally clean surface for the new caulk to bond to.

- Specially designed and constructed for long service life
- Professional in ease and speed of operation
- · Made of the finest quality steel and hardwood
- Manufactured with a comfortable smooth grip
- Adjustable depth sanding surface from 5mm to 22mm (3/16" 7/8")
- Kit consists of handle, sanding surface & six sanding pads
- Sandpaper strip replacements available

#### **Caulking Gun**

Caulking Gun for use with 20 oz (592ml) sausage packaging convenience and less waste.

- Manual or pneumatic
- High quality
- · Adjustable flow
- Faster for large jobs
- Less changing out of cartridges
- · Better for the environment and less waste

#### **Bond Breaker Tape**

Applied to the base of every seam creates two-sided adhesion, allowing the seam wall to work independently from the bottom, increasing flexibility.

- Multiple widths and lengths
- · Limits the amount of movement of a seam





# Visit teakdecking.com to find a local distributor





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