



**Teakdecking
Systems®**

TDS SIS 440 TEAK DECK CAULKING

APPLICATION INSTRUCTIONS

DO NOT USE PRIMER

1. Seams must be **clean** and **dry**. Surrounding wood should have 12% moisture content 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 in the same day.

2. When caulking, the **ambient temperature** should be between **40-90° F (5-33° C)**. If it is too cold, caulking will not cure. In the tropics, the teak deck may become so hot from the sun that the uncured caulking will **bubble out** of the seams.

3. **Seams** must be **thoroughly cleaned** back to fresh wood. Old caulking can be removed with a razor knife and reefing hook, a router, or circular saw. After removing old caulk, **sand the wood** on sides of seams with a piece of 80-grit sandpaper. Remove any **debris** in seams with a reefing hook, a brush and a **vacuum or compressed air**. Be sure that compressed air system has **traps** for moisture and oil.

4. Thoroughly clean and de-oil teak in seams with clean rags dipped in **acetone or Isopropyl alcohol**. Change rags **frequently**.

5. Do not use **Primer**.

6. For best results, appropriate bond breaker tape should be applied to the bottom of a seam before caulking.

7. To **begin** caulking, cut the top of the caulking nozzle to fit in the seam; and puncture the inner seal. **Squeeze** the end of the **nozzle** with a pair of pliers to allow the tip to reach the **bottom of the seam**.

8. Apply SIS 440 to **bottom of seam**, allowing it to flow upward until crowning above the top of the seam. Smoothly pull the gun along the seam. **Avoid starts and stops** or changes in direction that may entrap air.

9. Immediately after application, draw a flexible putty knife over the seam at a 30° angle. Apply enough pressure to make sure caulking fills the bottom of seam and leaving the caulking a bit high to account for settling. Make sure seam has no entrapped air after application that could have entered the seam from the "starting and stopping process", before continuing. The excess caulk can be sanded or carefully cut with a sharp chisel after the curing of the caulk has taken place.

10. Allow Black caulking to cure for at least 48 hours, for White and Grey caulking a minimum of a week in warm and tropical climates. In Europe and other colder climates it is recommended to wait at least 12 days before proceeding. When the caulking has cured remove excess with a sharp chisel or razor knife and sand surface of



deck with 80-grit sandpaper. Note! 100-grit sandpaper or higher is recommended for White and Grey caulking, as to leave a smoother finish that traps less contaminants. Use a grinder with a soft pad. When sanding, hold surface of pad flat against the deck and keep it moving to avoid sanding a depression into the deck surface.

CAUTION! Wash thoroughly after handling. Wear protective gloves and eye protection. If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Use with adequate ventilation. Avoid repeated and prolonged skin contact. **Keep out of reach of children.** See SDS for first aid information. Dispose of contents/containers in accordance with local, regional, national and international regulations.

WARRANTY: In connection with the sale of this product, Teakdecking Systems Inc (TDS) makes no warranty of suitability for any specific purpose. In lieu of all warranties expressed or implied, TDS will refund the purchase price of any defective material. In no case will TDS be liable for incidental or consequential damages.

NOTE: Paint and varnish do not adhere to caulking. After sanding teak wood and caulking, be sure to thoroughly clean any surrounding surfaces that are to be painted with the appropriate solvent to remove any residue. Test surfaces before painting.

SAFETY AND RELIABILITY: During cure, the sealant may irritate eyes. Care should be taken to read all caution labels and statements.

PRODUCT INFORMATION SHEET

TDS SIS 440
TEAK DECK CAULKING

- * One-Part Silane Polymer Adhesive/Sealant - Neutral Cure
- * No Primer Necessary

DESCRIPTION: TDS Deck Sealant is a one-part, paste-like neutral cure system which when exposed to moisture in the air reacts to form a tough, flexible solid rubber compound. **The sealant is a thixotropic material, and when cured, has excellent temperature stability and chemical resistance.** Because the sealant is neutral cure, it is non-corrosive to all substrates.

PROPERTIES		PHYSICALS	
Color	Black, White & Gray	Durometer (Shore A)	38-40
Specific Gravity	1.2	Tensile Strength	300 psi
Viscosity	Thixotropic Paste	Elongation	850%
Tack-Free Time	20-40 minutes	----	----
PACKAGING:			
IN CARTRIDGES	IN SAUSAGES	IN 5 GAL. (US) PAIL	
10.3 fl.oz. (305ml)	20 fl. oz. (592ml)	4.5 US gal. (17l)	

SHELF LIFE & STORAGE:

Stored in a dry area at temperatures between 0°C - 26°C (32°-80° F) in the provided cases, the sealant has a shelf life of eighteen /18 months from the date of production. Note! Product date code on packaging is batch code and date of manufacture.



HANDLING SUGGESTIONS:

- 1.) Read and follow instructions printed on the packaging.
- 2.) Paint and varnish do not adhere to caulking. After sanding, small particles of polymer from teak dust or other dust residue from the caulk may cause contaminations in wet paint. Thoroughly vacuum off teak dust and clean surfaces with proper solvents before painting to avert paint issues.
- 3.) Should you not completely empty the packaging in which the sealant was shipped, simply extrude approximately 4mm beyond the tip, let cure, and you have a ready-made plug that can be pulled out easily when use is required again after a temporary work stoppage.
- 4.) **CLEANUP:** Use mineral spirits to clean your hands and tools from caulk. **NEVER USE MINERAL SPIRITS IN TEAK SEAMS** (acetone or Isopropyl alcohol only).

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.

WHY SEALANTS FAIL

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 de-natured alcohol, as this will cause separation of the seam from the substrate after curing. The surrounding wood must have a moisture content of 12% or less.

* **Seam design** – Three sided adhesion will limit the amount of movement that a seam can accept before failing. For best results apply bond breaker tape to the bottom of the seam before caulking 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 top to bottom, without voids or air bubbles, allowing sealant to adhere to sides of seam. Please see our 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.

* Use 3M Fine line bond breaker tape or equivalent to achieve 2-sided adhesion. The bottom of the caulk seam should be able to move at the base of the seam, as the deck flexes and works.

TDS FEATURE & BENEFIT SHEET

FEATURES		ADVANTAGES	SUPERIORITY
1	Product developed by Teakdecking Systems for teak deck seams.	30 years of manufacturing and installing of about 14,000m ² plus 270,000 linear meters of caulk seam per year, equal 4-5 50m Super yachts a month. More than 10.000 custom decks made and installed	No primer needed or recommended. Very well tested and proven product in hot and cold climates.
2	A one-part silane polymer, that forms a solid rubber compound	Excellent resistance to U.V. The highest rating. Excellent resistance to chemicals. Excellent temperature stability.	Long life, stays flexible. Outlasts the polysulfides, polyurethanes and MS polymers.
3	Neutral cure	non-corrosive to all substrates.	No damage to the surrounding environment/ structures.
4	Viscosity	Thixotropic paste. Does not drip or sag	Easy to work. A soft paste even in cold or warm temperatures.
5	Primer free	A one-step process. Saves application time.	Good for work environment. No solvents. Environmentally friendly.
6	Cure time	Black caulk Cures and ready for sanding between 36-48 hours at 20° Celsius (68° F). White and Gray caulking require additional time to cure.	Decreased turnover time for the project with Black SIS440 only. Other products, Including the White and Gray caulking may take 10-12 days to cure.
7	Tack-free	After 20-40 minutes 'skins over'. Normally can be walked on next day	Reduced damage to the caulk before totally cured. Less repair time required.
8	Shrink / waste	Minimum sag or shrink during cure.	Less waste depending on the skill of the applicator.
9	Sanding	Easy to sand. Will not clog the sandpaper.	Faster project turnover time. More economical.
10	Excellent Shelf life	18 months shelf life. Store in a dry area between 0°C - 26°C. Do not let freeze	Long shelf life increases product demand. Economical and easier to sell due to less waste of product.
11	Seam width dimensions	Can use in seams from 3mm to 10mm.	Excellent appearance. Less use of material. Reduced waste. More economical.
12	Seam depth dimensions	The seam depth may be greater than the seam width and the caulk should go to the bottom of the seam. Bond-breaker tape is recommended, especially in seems deeper than 5mm.	Extended life time for the teak decks with full depth caulk seams. Better economy for customers.
13	Freight / Shipment	SIS440 is "NOT HAZARDOUS". Can ship airfreight.	Reduced cost for freight
14	Worldwide technical support	Worldwide distributors and worldwide technical support.	ZMG and TDS support personnel are boatbuilders who have been in the teak decking business for years. Rapid response provided for all teakdecking and caulking questions.

OTHER APPLICATIONS	OTHERS ESTABLISHMENTS USING SIS440 CAULKING
<ul style="list-style-type: none"> * Bedding deck equipment / Hardware * Bedding teak decking * Sealing edges around windows * Also used to caulk seams in other wood decks * Construction * House Flooring exterior / interior "maritime look" 	<ul style="list-style-type: none"> * Boat building * Boat repair yards * Boat marinas * Private boat owners * Cruise ship / yards * Ship chandlery in cruise ship business * Construction / wood floors in houses " marine style"



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