



TDS SIS 440 TEAK DECK CAULKING APPLICATION INSTRUCTIONS

PRIMER NOT NECESSARY

1. Seams must be **clean** and **dry**. Surrounding wood should have less than 12% moisture content. **DO NOT ATTEMPT TO CAULK WET SEAMS.** If water or moisture is present, cover area to be caulked, and allow to dry. In some cases, this may take several weeks. For this reason, it is best to caulk under cover. If cover is not available during a reseam, only open as much seam as can be cleaned and recaulked without moisture getting into the seam..

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** should 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 and **acetone**. Change rags **frequently**.

5. **Primer Not Necessary.**

6. For best results, a bond breaker tape (**3M Brand #218 Fine Line**) should be applied to the bottom of the 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, applying enough pressure to slightly bend the blade. The caulking should **well up behind** the knife in a slight **crow**. Entrapped air will "pop" and must be worked out of the seam before continuing. Remove excess caulk from the deck with a putty knife, leaving the seam bead undisturbed.

10. Allow caulking to **cure** at least **48 hours**, (longer in colder weather) before proceeding. When caulking has cured, sand surface of deck to remove excess caulking with **80-grit** sandpaper on 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

NOTE: Paint and varnish do not adhere to caulking. After sanding caulking, be sure to thoroughly clean any surrounding surfaces that are to be painted with solvents to remove contaminants that may cause 'fish-eye'! Test surfaces before painting.

Meets or exceeds Federal Specifications TT-S-00230C (COM-NBS) for one component building sealants and TT-S-001543A (COM-NBS) for polymer building sealants.

STORAGE: Store in a dry area at temperatures below 80°F (26°C) and above 32°F (0° C). Do not let freeze. Use within 18 months of manufacture.

CAUTION! Use with adequate ventilation. Contact with uncured product may irritate eyes. In case of contact, flush eyes with water for at least 15 minutes. Consult a physician. (Contact lens wearers should take appropriate precautions.) Avoid repeated and prolonged skin contact. **Keep out of reach of children.** For additional information, consult Material Safety Data Sheet.

Name	Cas#
Methyl oximino silane	22984-54-9

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.





PRODUCT INFORMATION SHEET

TDS SIS 440

TEAK DECK CAULKING

- * One-Part 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, which does not sag during cure, and, when cured, has excellent temperature stability and chemical resistance. Because the sealant is neutral cure, it is non-corrosive to all substrates.

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

PROPERTIES		PHYSICALS	
Color	Black, White & Gray	Durometer (Shore A)	30
Specific Gravity	1.2	Tensile Strength	300 psi
Viscosity	Thixotropic Paste	Elongation	350%
Tack-Free Time	20-40 minutes	----	----
PACKAGING:			
IN CARTRIDGES	IN SAUSAGES	IN 5 GAL. (US) PAIL	
10.3 fl.oz. (305ml)	20 fl. oz. (600ml)	4.5 US gal. (17l)	

SHELF LIFE & STORAGE:

Stored at or below 80°F (26°C) in the provided container, the sealant has a shelf life of eighteen months from the date of shipment. Product date code on packaging is 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 'fisheye' 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 1/8" 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 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.

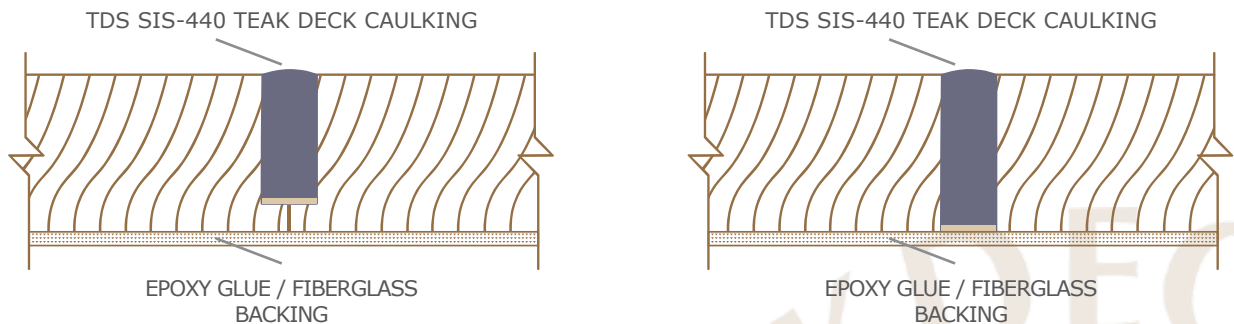


WHY SEALANTS FAIL

THE PROPER COMPOSITION OF A CAULK SEAM

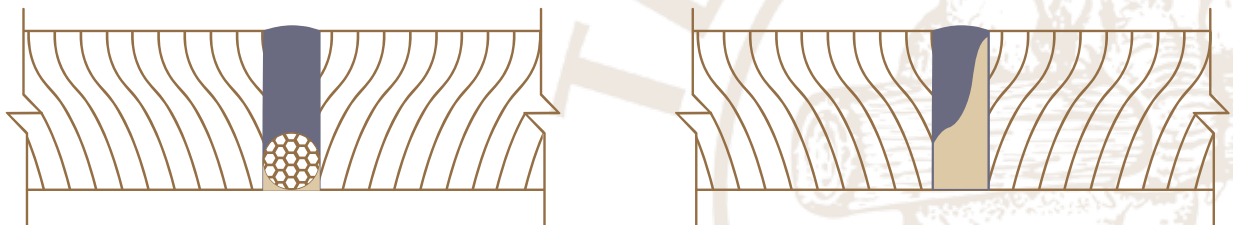
- * **Preparation of seam** – All surfaces of the seam must be **dry, dust free, and cleaned with acetone** on a rag to remove any contaminants that would thwart proper adhesion. Isopropyl alcohol may be used, but acetone is strongly recommended. **Do not** use de-natured alcohol, as this will cause separation of the seam from the substrate after curing.
- * **Seam design** – Three sided adhesion will limit the amount of movement that a seam can accept before failing. TDS recommends 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 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.

SEAM COMPOSITION AS RECOMMENDED BY TDS



- * Use of polyurethane bond breaker tape aids 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.

SEAM COMPOSITION NOT RECOMMENDED BY TDS



- * Use of a backer rod does not ensure a good, tight seal at the base of the seam.

- * A proper caulk seam must be filled entirely to the bottom. 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.

TDS FEATURE & BENEFIT SHEET

FEATURES		ADVANTAGES	SUPERIORITY
1	Product developed by Teakdecking Systems for teak deck seams.	25 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. 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. Better than 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	Cures and ready for sanding between 36-48 hours at 20° Celsius.	Decreased turnover time for the project. Other products may take 6-7 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.	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 technicalsupport	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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