



**TIKAL**<sup>®</sup>  
MARINE SYSTEMS

**TEAK SOLUTIONS**  
Custom Teak Experts

**Technical Informations**  
**MSDS**



Product : **TIKALFLEX TSC – Teak Solutions Caulk**  
Date : **08 / 2016**

**Description**

**Tikalflex TSC** is a one-part, paste like neutral cure adhesive sealant specially designed to caulk and seal teak decks. It cures when exposed to moisture in the air forming a tough, flexible bubble free seal. It's non-corrosive and has excellent adhesion, temperature stability and chemical resistance as well as resistance to sunlight, UV and salt water. It can be sanded once cured but may not be overpainted.

**Typical Benefits**

- Requires no primer, no primer allowed
- Remains flexible – will not shrink, crack, crumble or dry out
- Long-life reliability – 10 years guarantee
- Resists staining, mildew, spotting and color change
- Sandable and without air bubbles and unsightly voids.
- Fast curing formula allows the deck to be walked on the next day.

**Typical Properties**

<b>Colour:</b>	Black, White and Grey <b>*** Read special Notes for White and Grey ! ***</b>
<b>Flow, sag or slump :</b>	nil
<b>Skin Time :</b>	5 minutes
<b>Tack-Free Time :</b>	35-40 minutes

**Cure Thickness after 24 h at 25°C / 50% RH :** 3,2mm  
**Extrusion Rate :** 230 g/min.  
**Specific Gravity :** 1.28

**Cure Physicals – after 7 days at 25°C (77°F) and 50% RH**

<b>Durometer Hardness, Shore A, points</b>	35
<b>Ultimate Tensile Strength (maximum elongation)</b>	1,72 N/mm <sup>2</sup>
<b>Elongation</b>	550%
<b>Adhesion to Teak (pli=N/mm)</b>	3.500 N/mm
<b>Wet Adhesion to Teak (pli= N/mm)</b>	3.180 N/mm
<b>Service Temperature</b>	-40°C to 163°C
<b>Application Temperature</b>	-10°C to 60°C
<b>Staining</b>	None
<b>Weathering (Atlas Weatherometer)</b>	No change

## Application – How to use

### If using WHITE or GREY TSC please read special notes !!!

**Tikalflex TSC** must always be applied to sound, clean, dry surfaces.

Do not attempt to caulk wet seams !

When caulking the temperature should be between 5-33°C (40-90°F)

The colder the temperature the slower the curing.

If caulking in tropical heat, it is best to apply caulk under a canopy as the deck may become so hot from the sun's heat that the uncured caulk may bubble out of the seams.

Final sanding of the seam walls with a Tikal Seam Sander or similar tool should fair the seam's surface, rough up remaining mill marks or saw 'polishing' and also remove any wood grain filaments.

Thorough cleaning with a vacuum or air blower is a must to remove any sawdust or other contaminants and then the seams must then be carefully cleaned with clean cotton rags and acetone. Bonding surfaces on both new and remedial joints must be clean, dry and free of dirt, dust and film.



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On old joints remove old caulking with a razor knife, router or circular saw, to new wood. Clean / degrease the seams using clean rags and oil-free ethanol or acetone. Never use mineral /white spirits !

Use any type of wood primers intended for other caulk products. This will defeat the adhesion of the product, void the warranty, and may cause staining within the cured caulking.

### Applying the sealant

Use a bond breaker on the bottom of the seam to create a parallel 2-side bond. The Bond breaker shall be same size as the joint itself.

For best results, caulk the seams from bottom and up, immediately afterward spoon the caulked seams with a spatula to make sure any trapped air bubbles etc. will be squished out and not get trapped.

After curing the material should be cut back with a cutter knife.

### Curetime & sanding

Cure time is a function of the cross-sectional dimensions of the seam and the 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.

Finally allow the sealant to cure at least 48 h at RT before sanding.

Full cure with maximum adhesion will be reached in approximately one to two weeks, depended on application temperature and humidity

### Clean-up

Excess sealant can be easily cleaned off tools and nonporous surfaces while in the uncured state, using **Tikalflex Cleaner C** or **Tikalflex Cleaning whipes**.

For cleaning hands use Tikalflex Cleaning whipes.

Never usw mineral / white spirits

Cured material can only be removed mechanically.



## Limitations

Do not use acid cleaning solutions to clean surfaces.  
Paint and varnish will not adhere to **Tikalflex TSC**.

## Storage and Shelf Life

When stored in original unopened container at or below 26°C (79°F) best as dry and cold as possible.

Products has a shelf life of:

Cartridge	16 month	from date of manufacture
Sausages	18 months	from date of manufacture

## Specifications

TIKALFLEX TSC for teak decks meets the performance requirements for the following:  
US American Specifications TT-S-001543A, TTS-00230C and ASTM C920-86.

## Packaging

**Tikalflex TSC** for teak decks is available

300 ml cartridges comes in cases of 12 in each  
600 ml sausages comes in cases of 16 in each.

## Caution - Safety

Direct contact of uncured sealant irritates eyes and may irritate skin.  
Overexposure to vapor may irritate eyes, nose and throat.



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Use with adequate ventilation.  
Do not handle contact lenses with sealant on hands.  
For further info, request for MSDS

## Disclaimer

The information contained in this data sheet is empirical or based on laboratory testing and is not intended for design purposes.

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Users are responsible for making their own tests and evaluation of this product when not following the TIKAL MARINE SYSTEMS GMBH regulations.