

# Unlocking Asymmetric Spinnakers



# Chuck Skewes

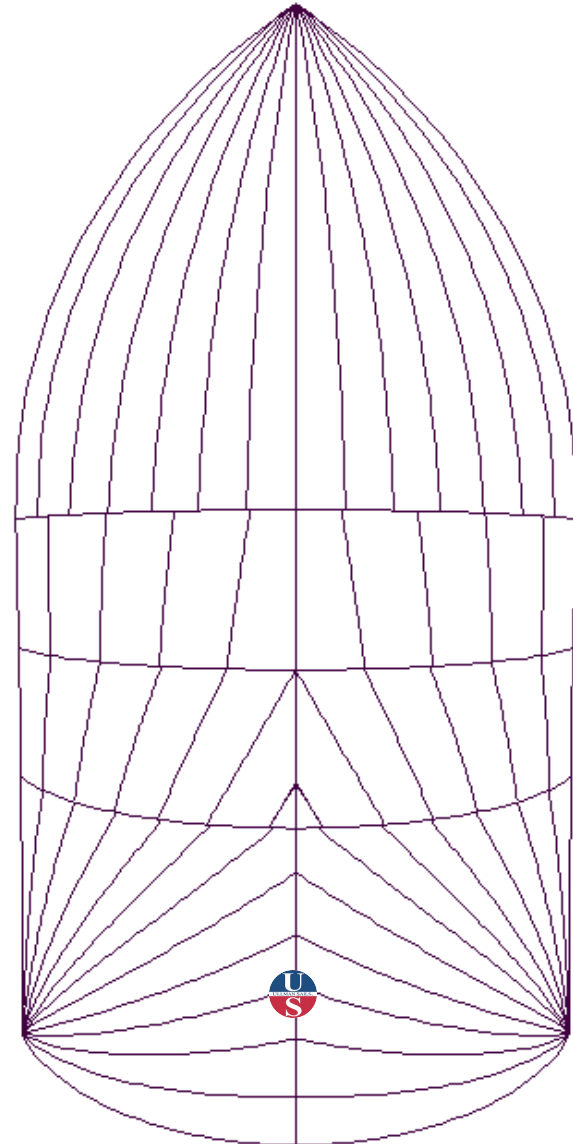
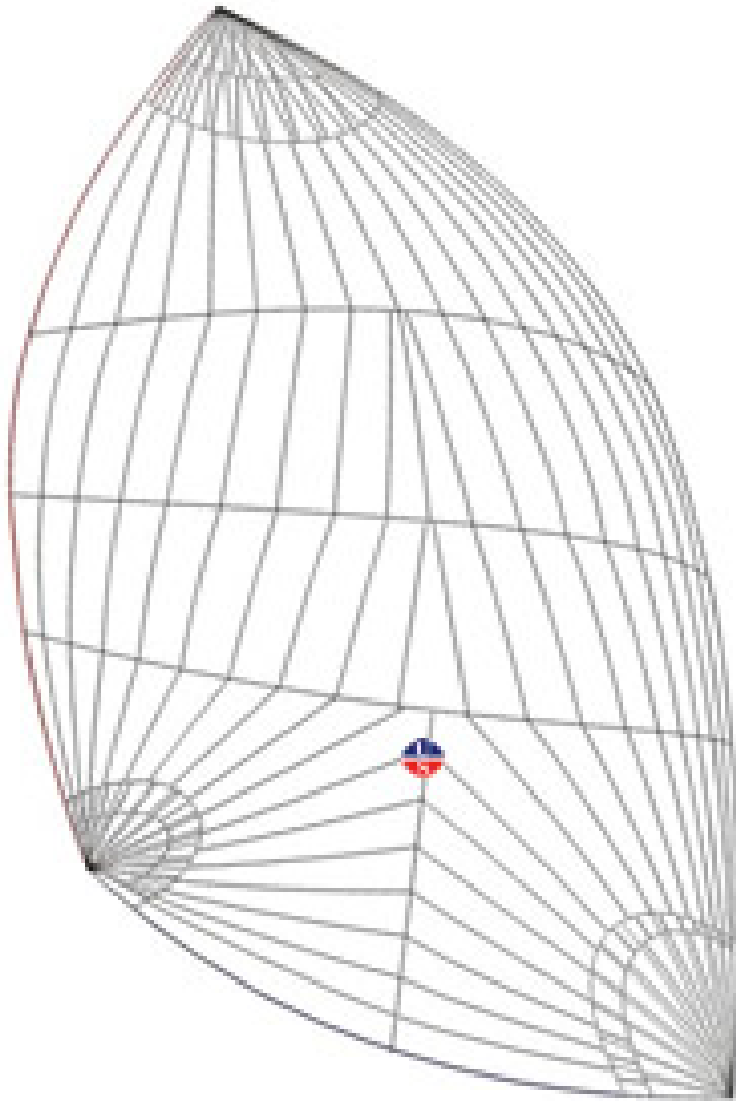


- **3 time North American Champion, Multiple National Champion, District Champion in classes from Lasers, Thistles, International 14's, J-24, SJ-24, Olson 30's, Beneteau 40.7s and Sleds.**
- **In the last couple years I have sailed 3 Cabo Races, Transpac, Etchells Worlds, Rolex Big Boat Series, San Diego to Puerto Vallarta, MEXORC, Baja Haha and many others.**
- **Have been Sailmaking since 1986.**
- **In the just over the next year I will sail Cabo Races, Transpac, Coastal Cup and most of the So Cal medium distance races.**





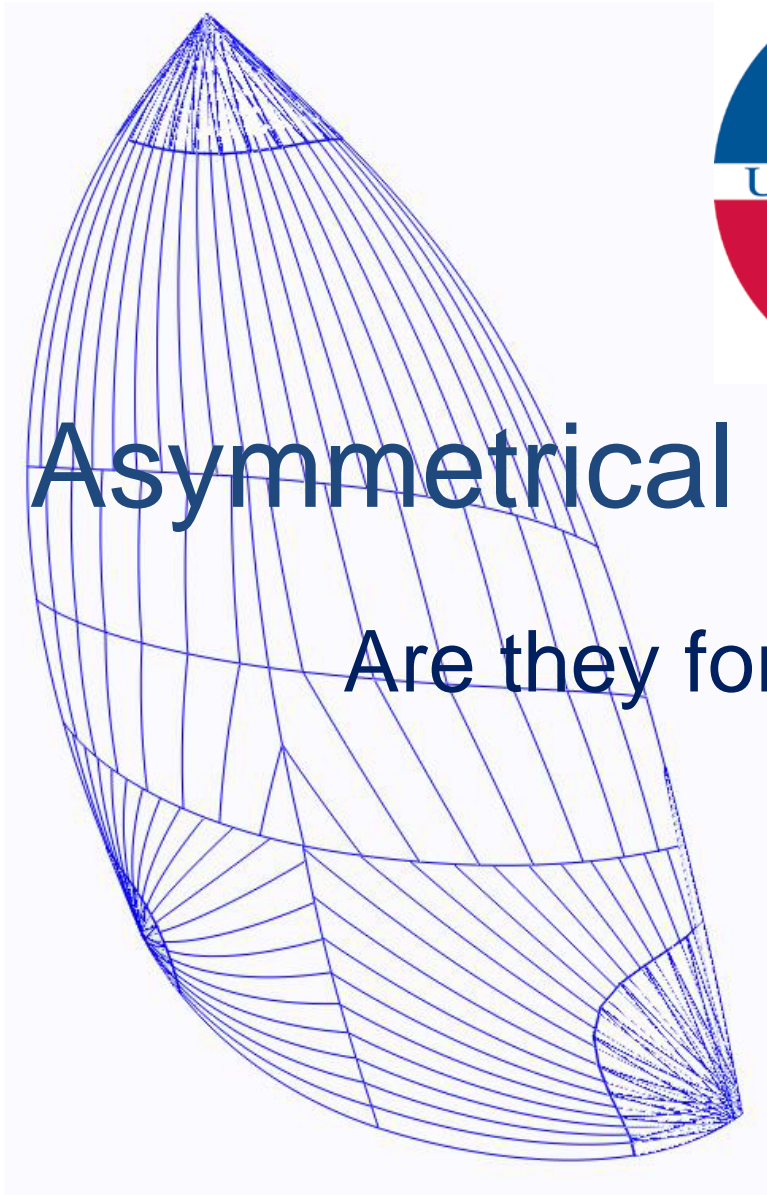
# What Is An Asymmetric Spinnaker?





# Asymmetrical Spinnakers

Are they for me?

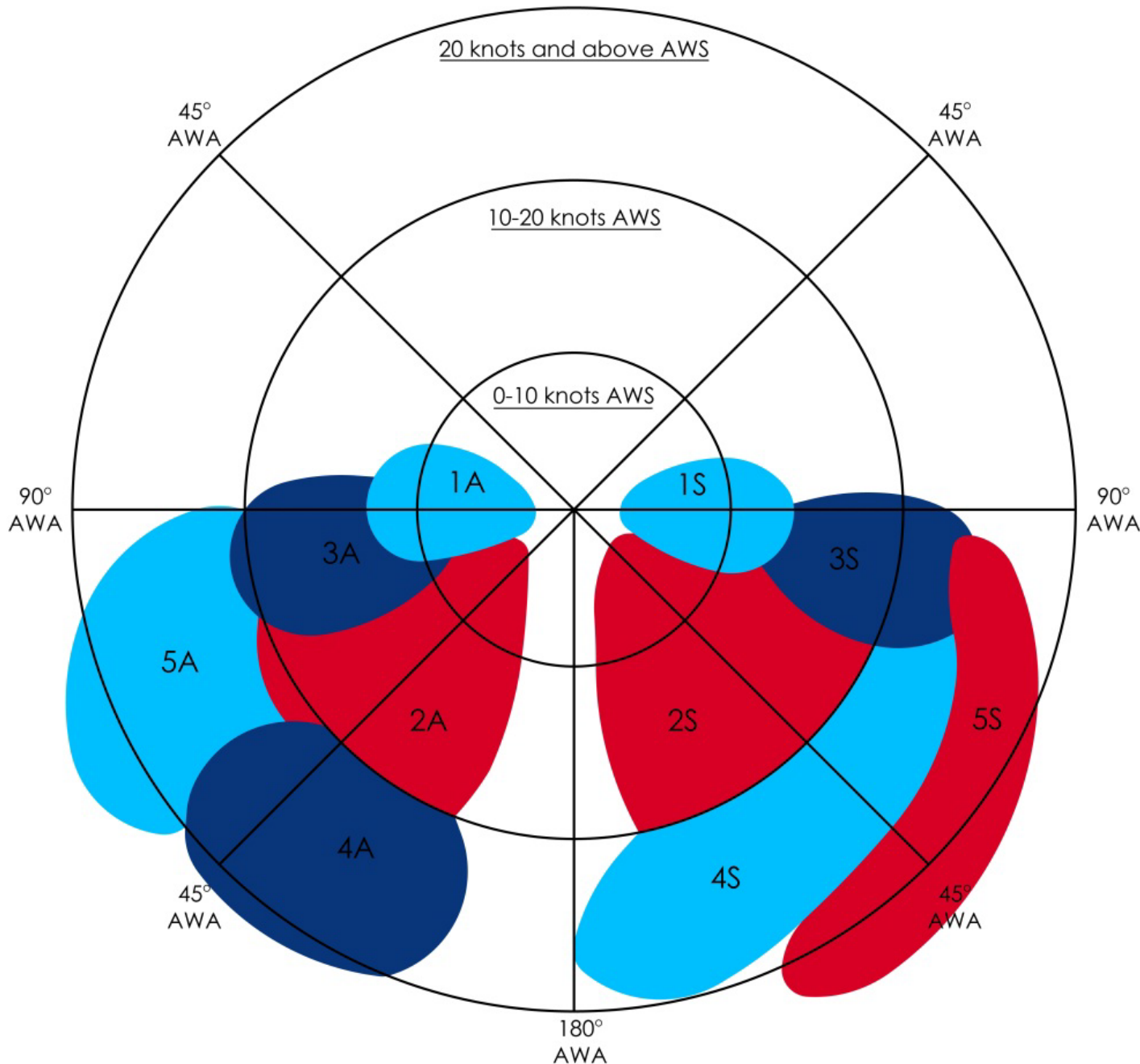


# Why Are They Better?

- Easier to trim
- More efficient
- Less oscillation
- Safer
- Easier to short hand
- Can gybe without leaving the cockpit.



# Spinnaker Coding



**0 and Odd numbers are reaching Sails**

**Even numbers are running sails**

**Cruising Spinnaker are generally cut as A2 (light medium running)**



# Optimum Sailing Angles

- Cruising  
Spinnakers  
optimum sailing is  
135 to 155 TWA.
- This is 90 to 110  
AWA.



# Apparent Wind Angle

- This is what your entire boat and sails are sailing in.
- It drops when you sail low and increases when you sail high.
- The faster your boat is the further forward the apparent wind angle will be.



# What do I need?

- Two sheet twice the length of the boat each
- Spinnaker halyard

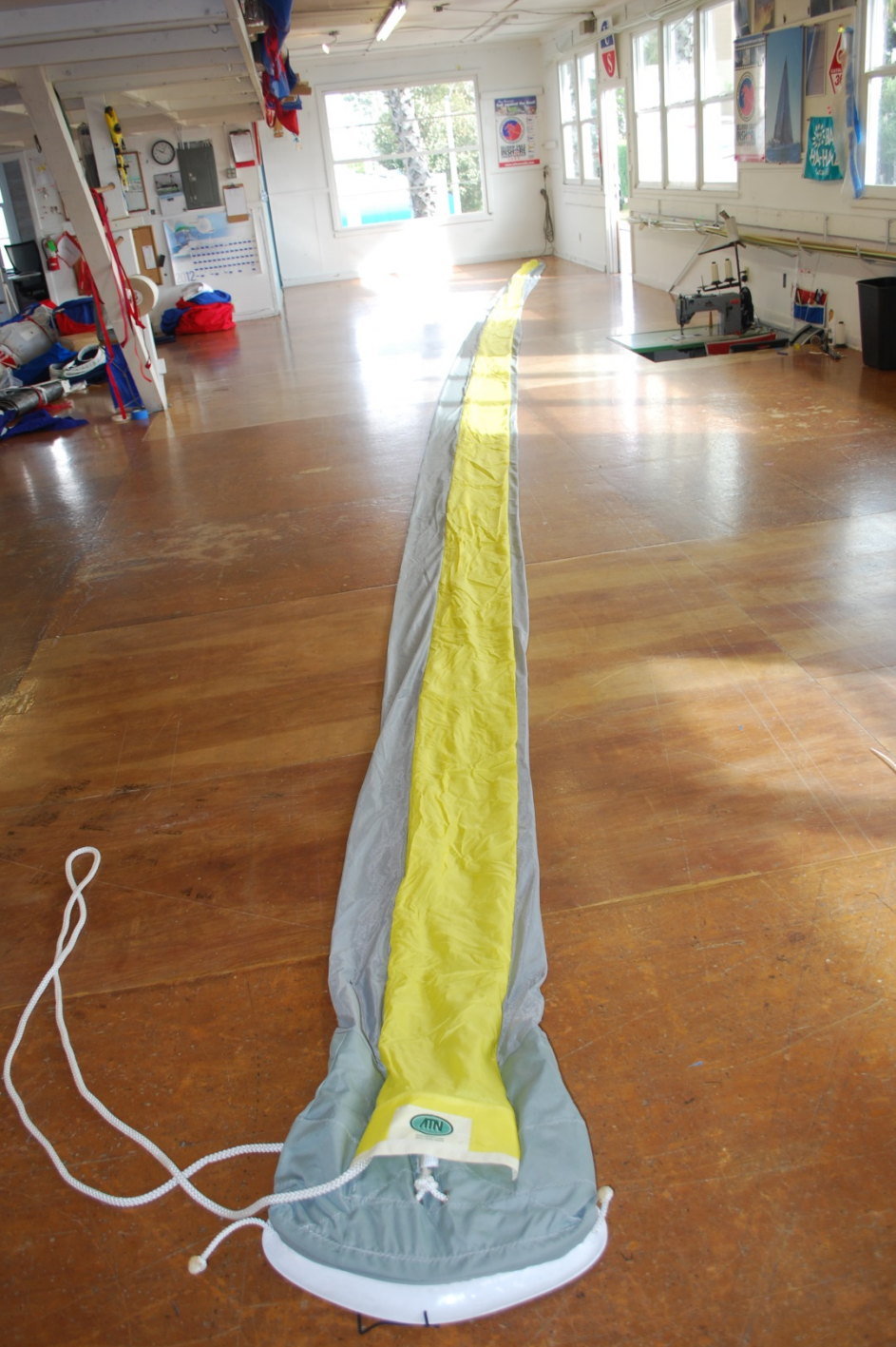
## Suggested

- ATN Sock
- Or Top Down Furler





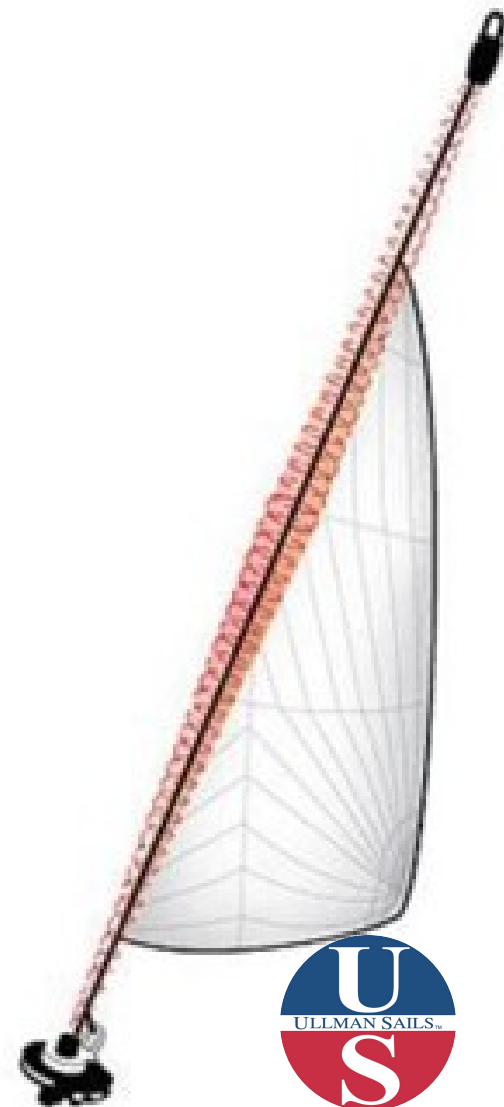
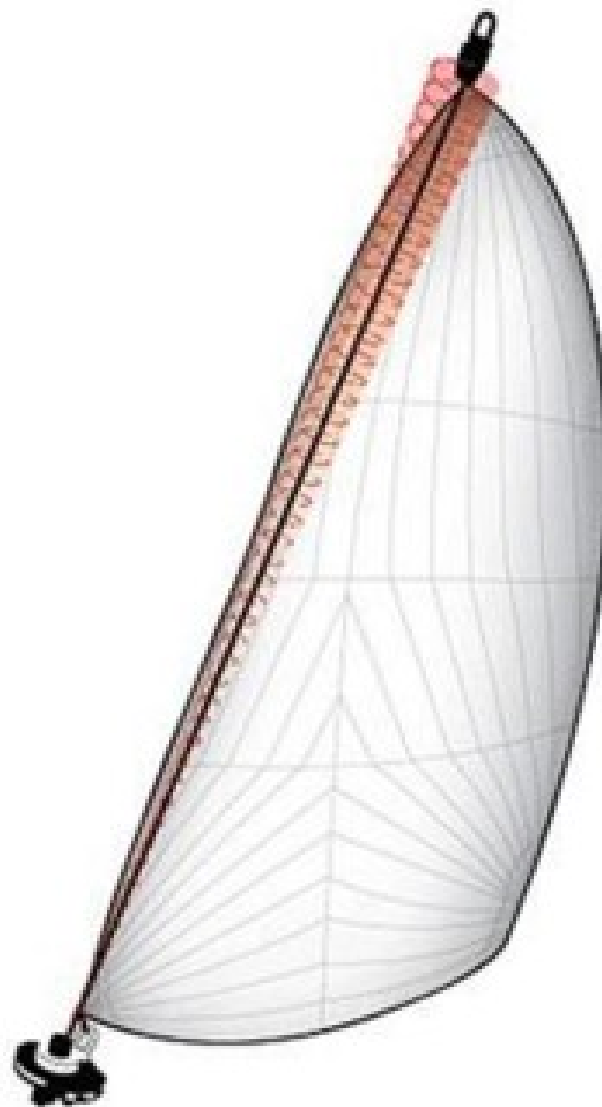
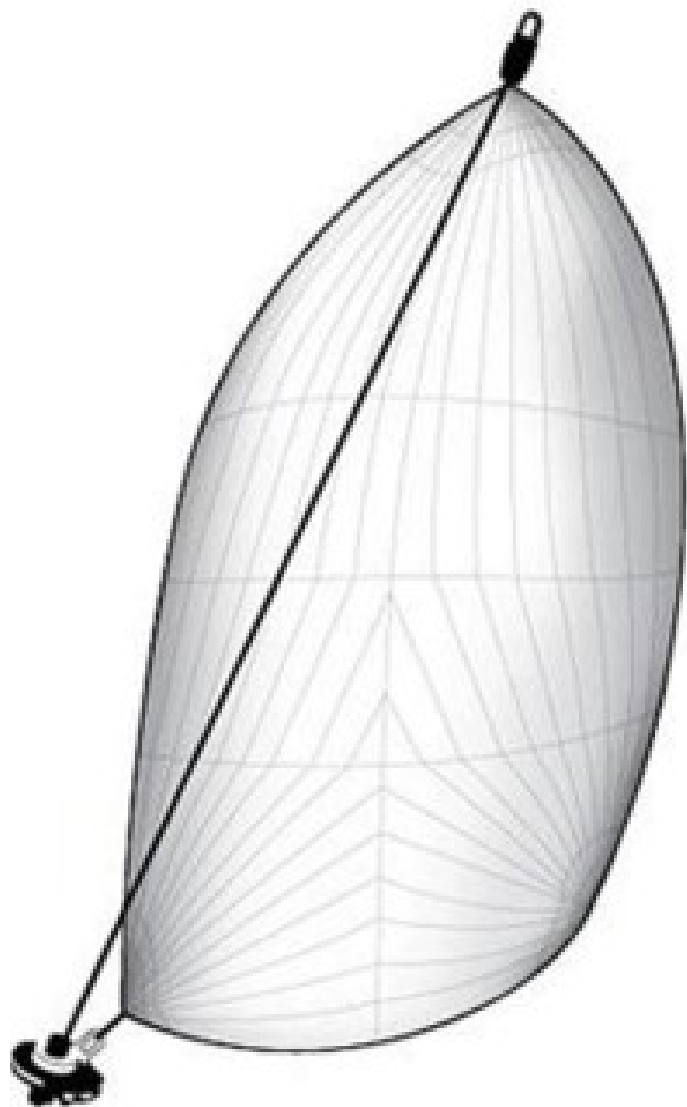
# ATN Sock







# Top Down Furler



**You can set and  
take down at  
the dock**









# No Size Limit

- On top down Furlers
- On Asymmetric Spinnakers
- On the amount of fun and performance you can get.



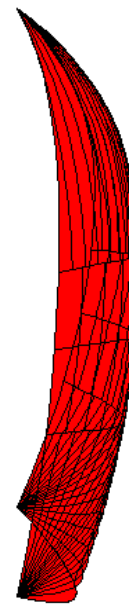
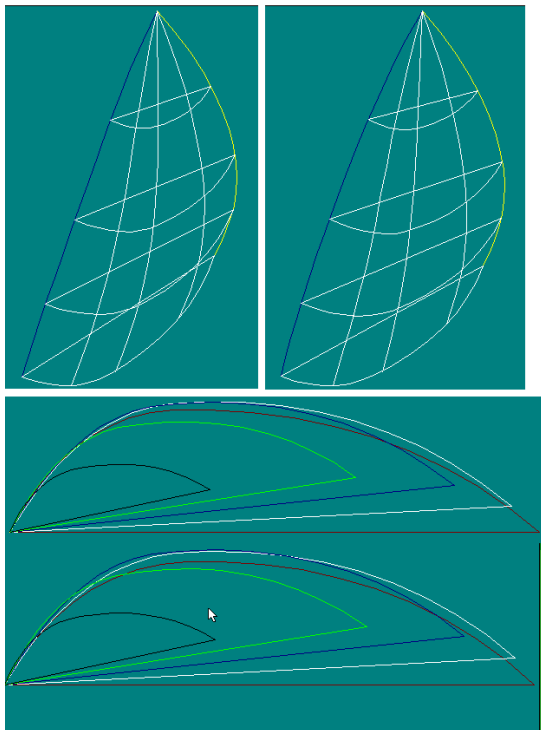




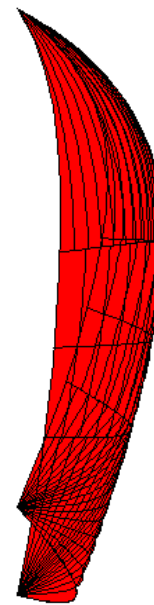




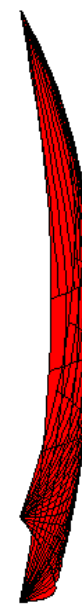
# ASYMMETRIC TRIM



Code 3A HVY



Code 2/4A



Code 5A





Trim luff shoulder with curl in 1-2 panels





# Recommendations

- Spinnaker should be 1.5 oz for durability and for sail handling system.
- Should be fully tri-radial
- Line inside luff tape
- Have a sock or top down furler
- Sized at 165%
- Use in under 12 knots of wind the first time



A high-speed sailboat is shown from a low angle, cutting through a dark, choppy sea. The boat is white with a red stripe along the hull. Several crew members are visible on deck, some wearing white and black gear. The mast and boom are prominent in the foreground. The sky is blue with scattered white clouds. The boat is moving quickly, as evidenced by the large, white wake and spray of water.

**31.3 knots of boat speed  
in 40 knots of wind**

**Enjoy the Show**



# UNLOCKING OFFSHORE SAIL REPAIR

Brought to you by Ullman Sails





**BAJA HA-HA XXII**  
**2015 CRUISERS RALLY**  
**OCTOBER 25 – NOVEMBER 7**

**SAN DIEGO CALIFORNIA TO**  
**CABO SAN LUCAS MEXICO**



# Unlocking Offshore Sail Repair

*By Chuck Skewes*





# Chuck Skewes



- 3 time North American Champion, 2015 Transpac Champion, 2008 Etchells Worlds Grand Master Champion, Multiple National Champion, District Champion in classes from Lasers, Thistles, International 14's, J-24, SJ-24, Olson 30's, Beneteau 40.7s and Sleds.
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- Have been Sailmaking since 1986.
- In the just over the next year I will sail 2 Cabo Races, Pacific Cup, Coastal Cup and most of the So Cal medium distance races.
- **I sail more miles a year than I drive my car**

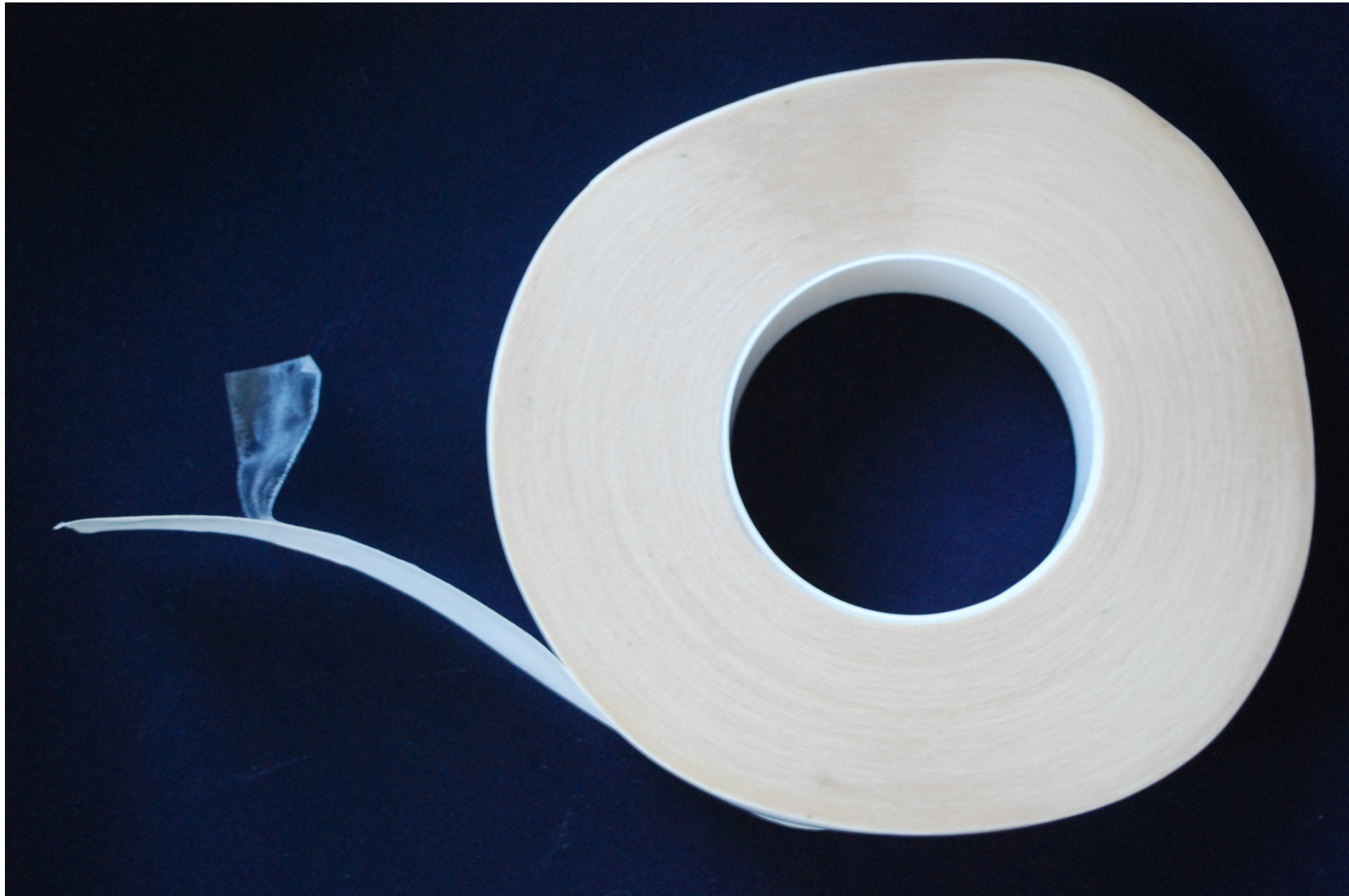


# Most common types of repairs

- Clew webbing
- U.V. covers
- Seams
- Leech tapes
- Tears at spreaders on genoas
- Luff slides
- Reefing nettles



# Venture Tape

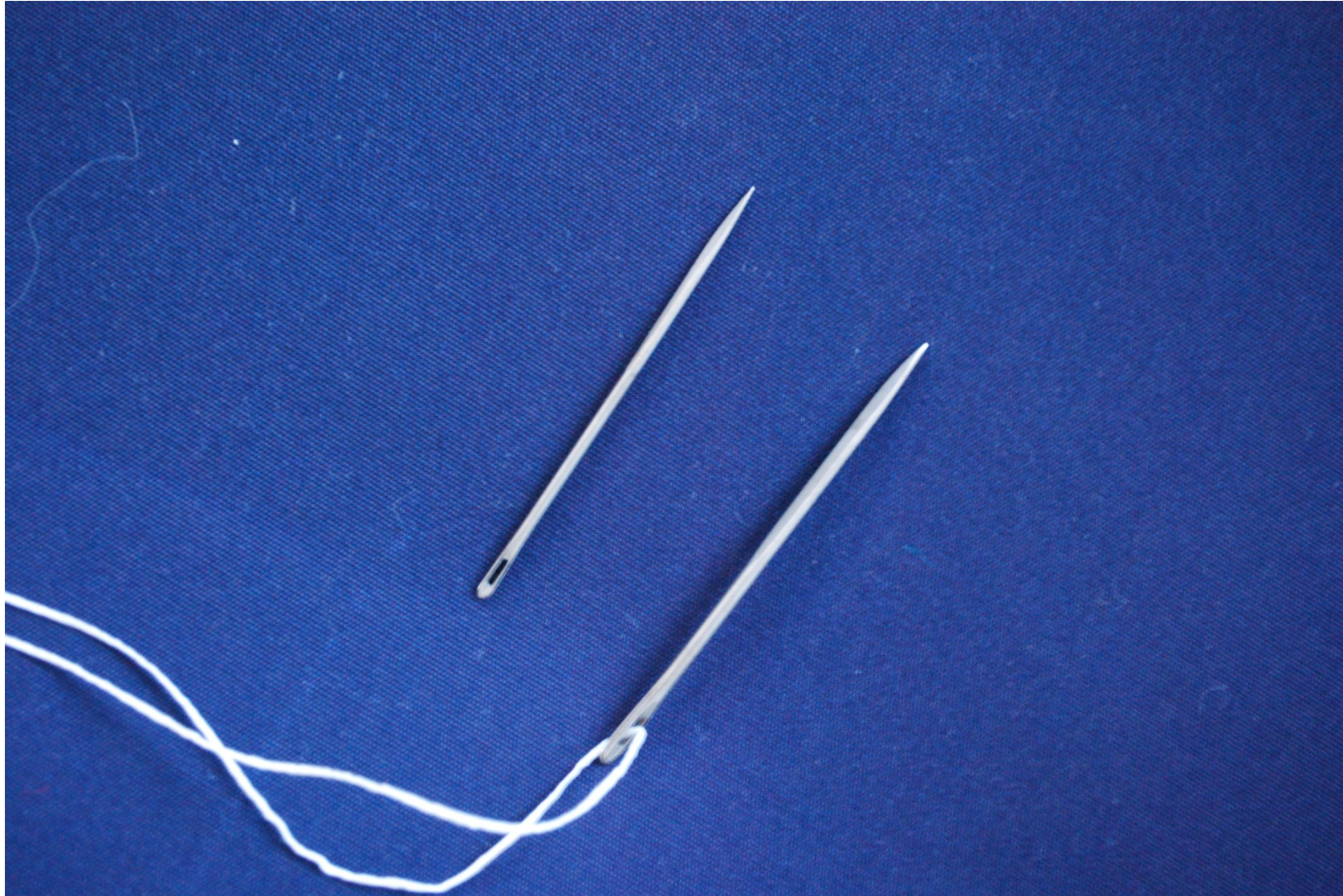




# Staple-the longer the better









# Waxed Thread



























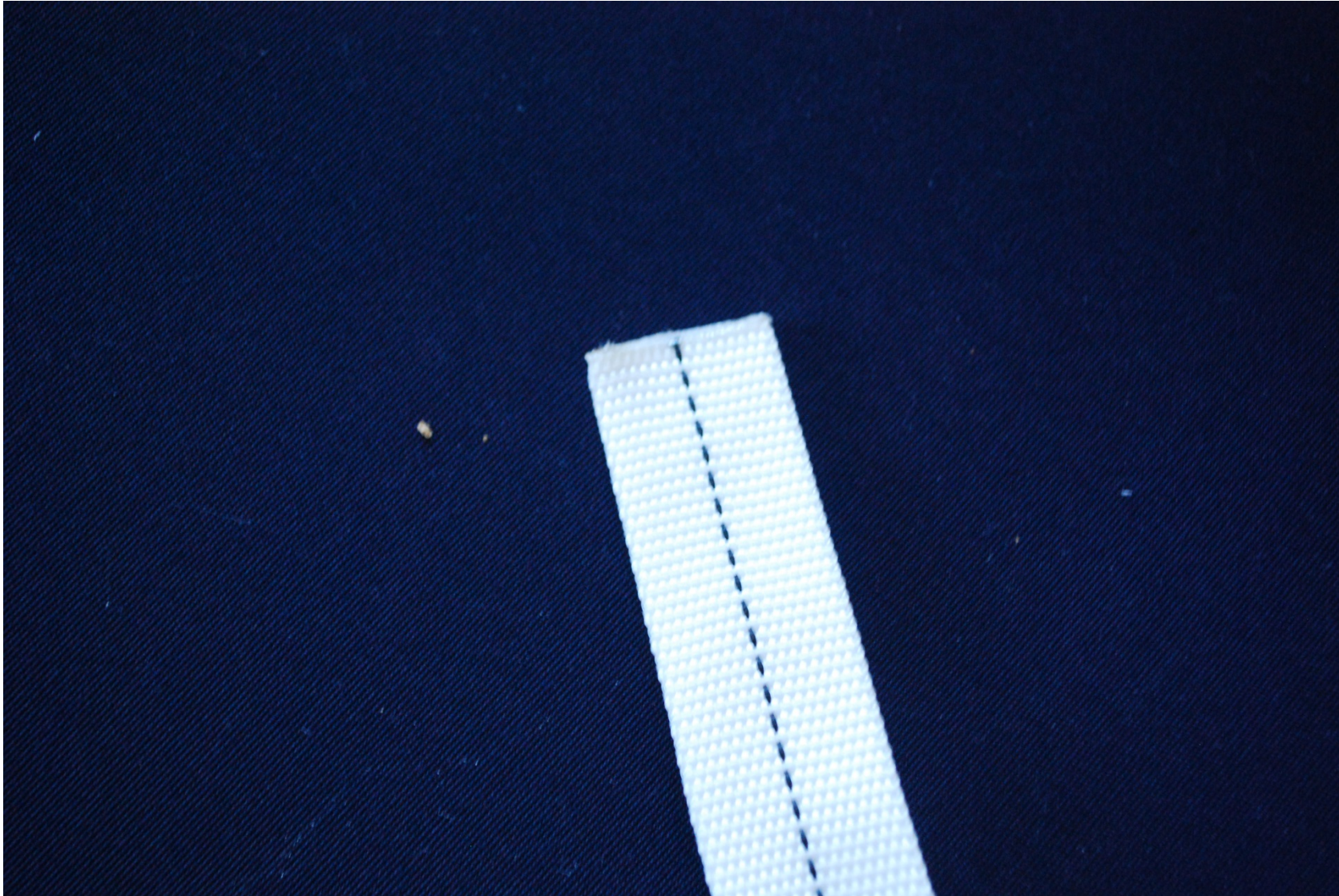








# Tubular Webbing

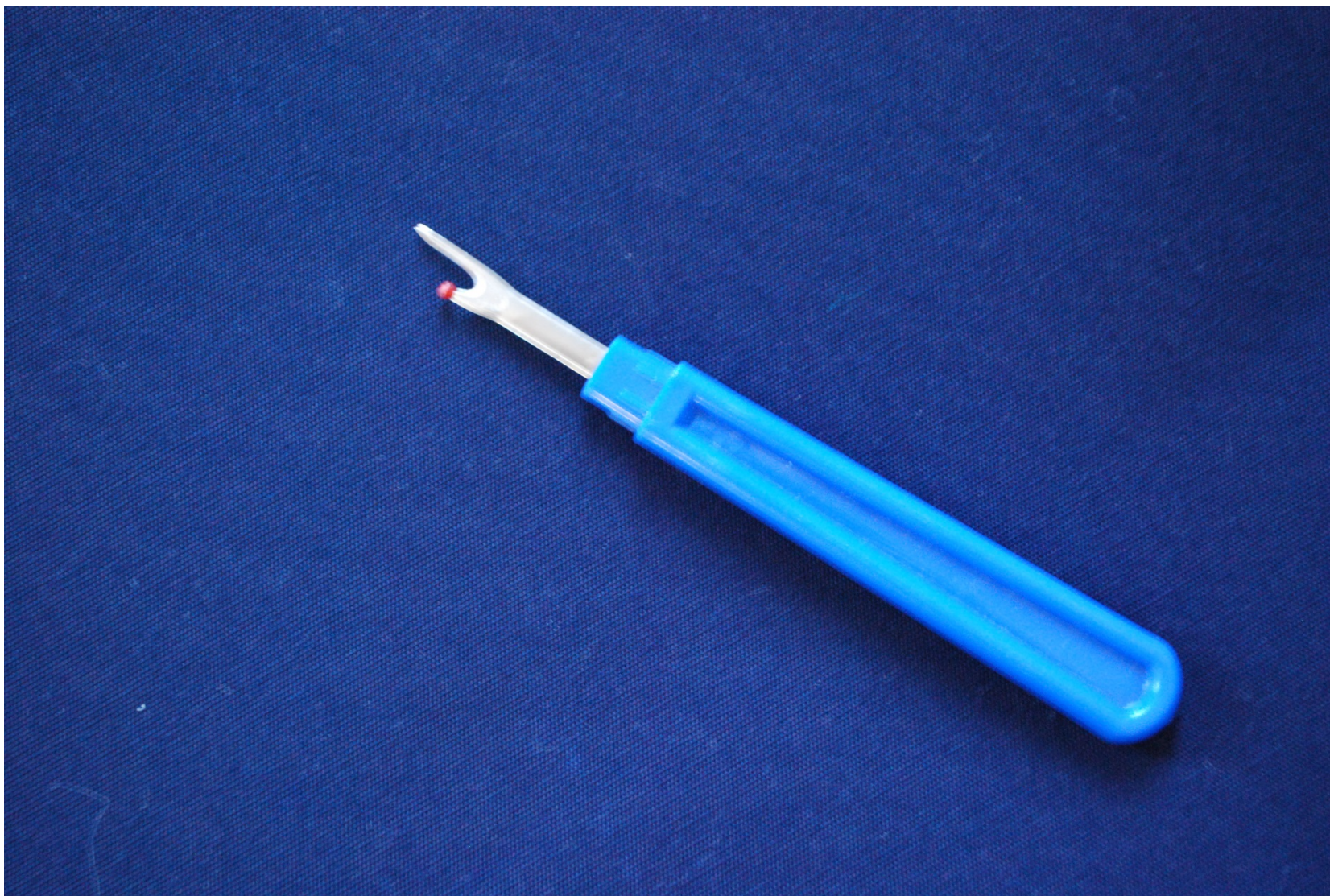








# Several Seam Rippers



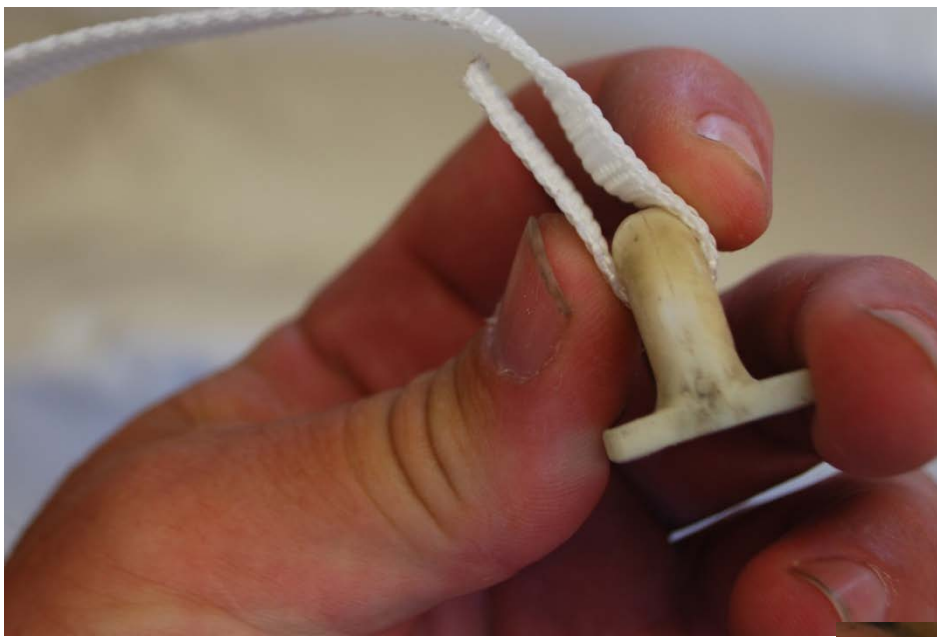


# Butane Hot Knife and Spare Fule





















# Repairing Leech Tapes and Leech Tears

- Clean area with rubbing alcohol
- Remove all bad stitching or stitching next to tear.
- Line up tear as close to “original” as possible





















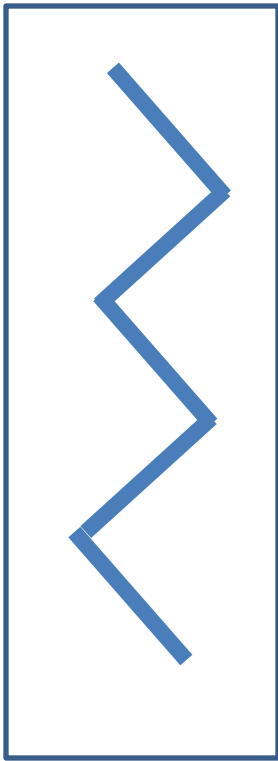


# Staple leech tape into place





# Clew, Head, or Tack Webbing



**Double Thread**

**Use Thick Needle**

**Punch Holes With Awl**





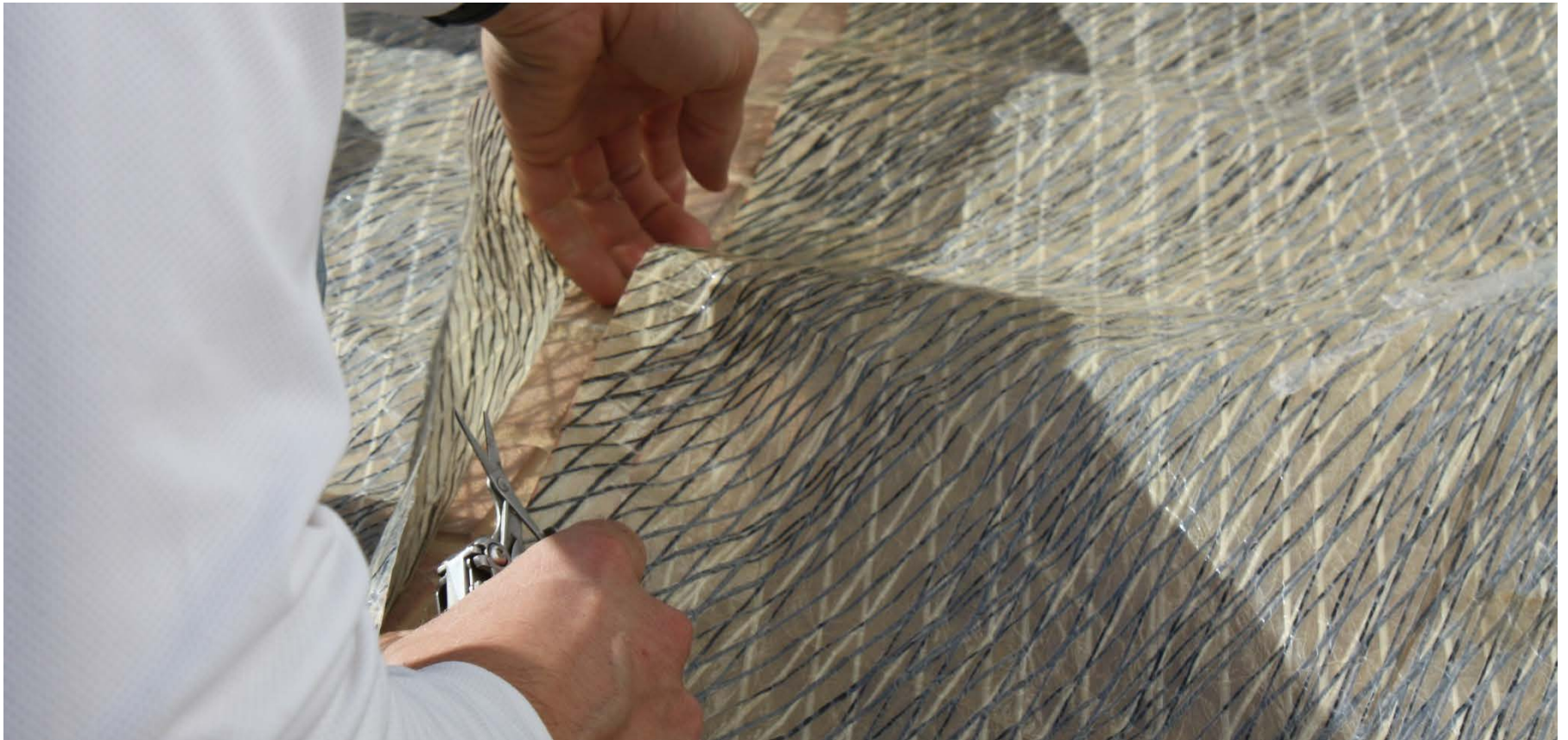


DR  
Sails



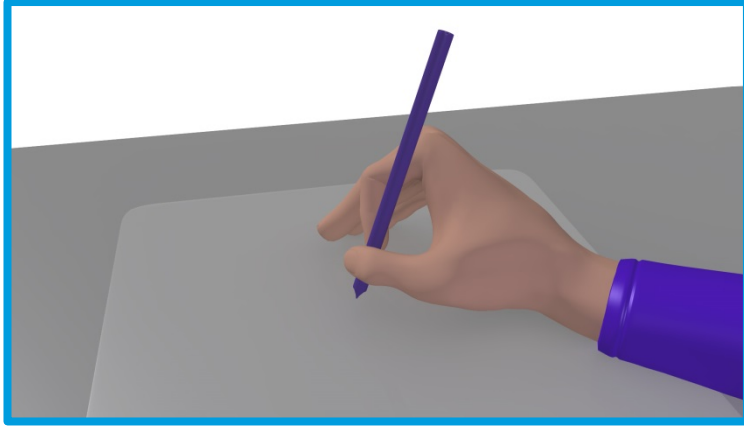


# How repair a leech seam

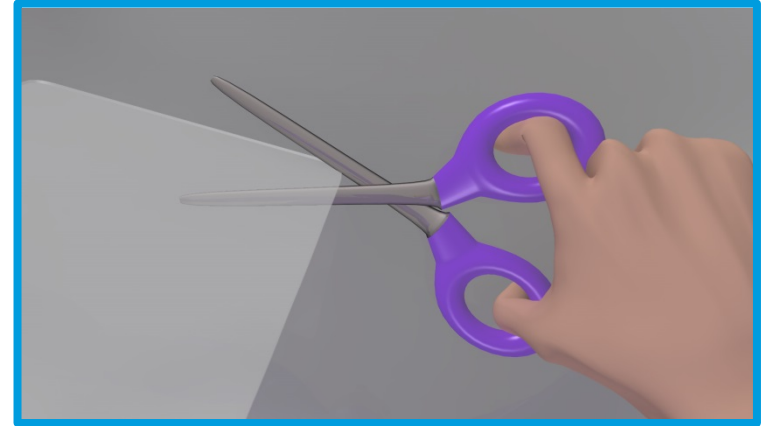




# ① Size the patch



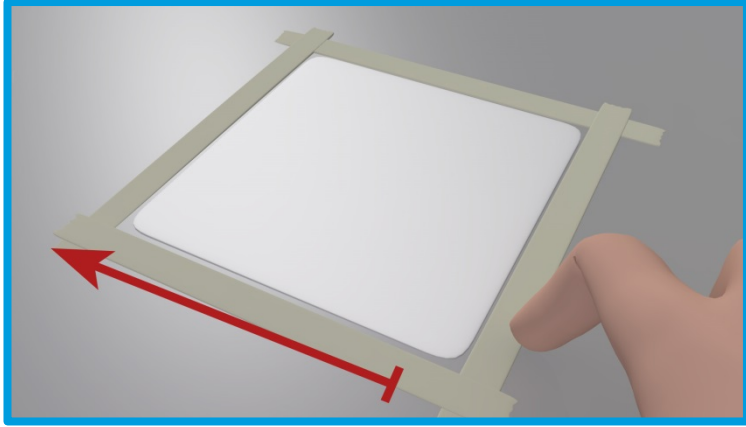
# ② Cut and round



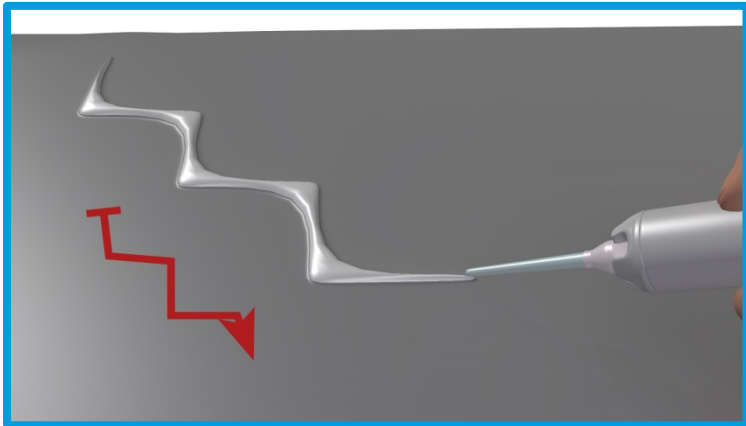
# ③ Do it twice



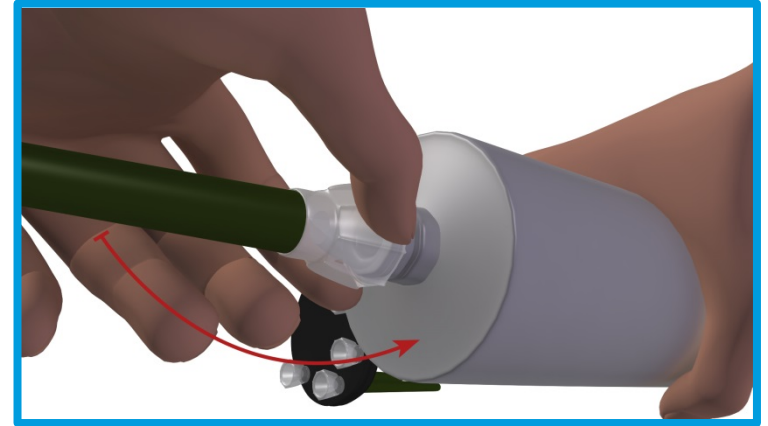
# 4 Fix mask tape



# 6 ZZZ Apply

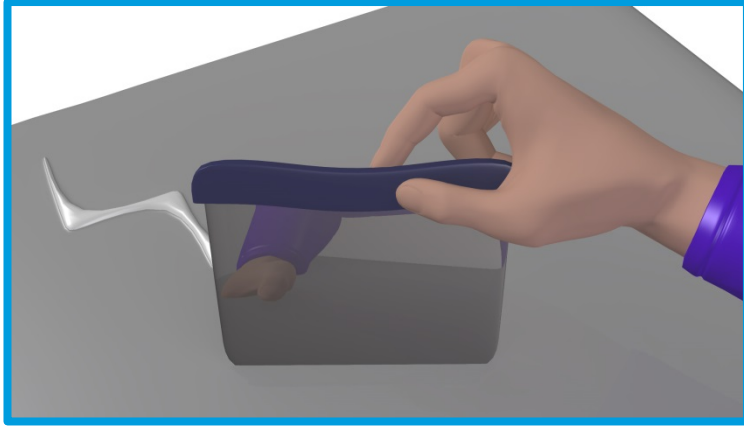


# 5 Grab DrSails®

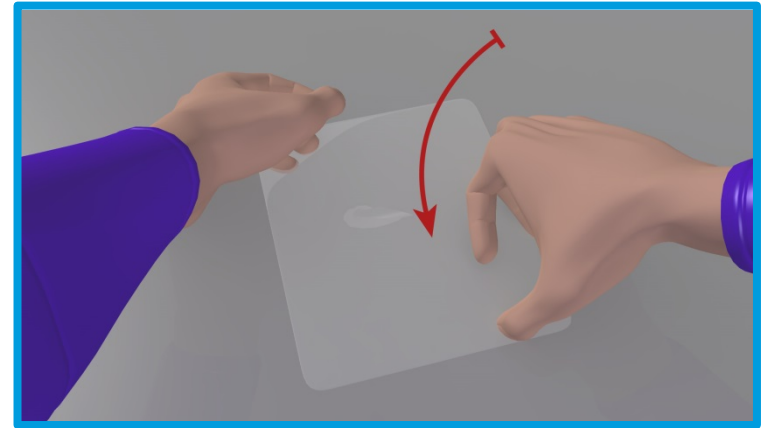




# 7 Spread on patch



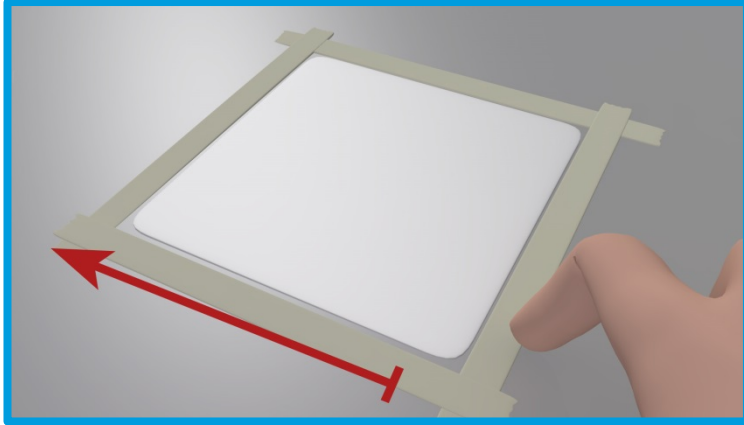
# 8 Place on site



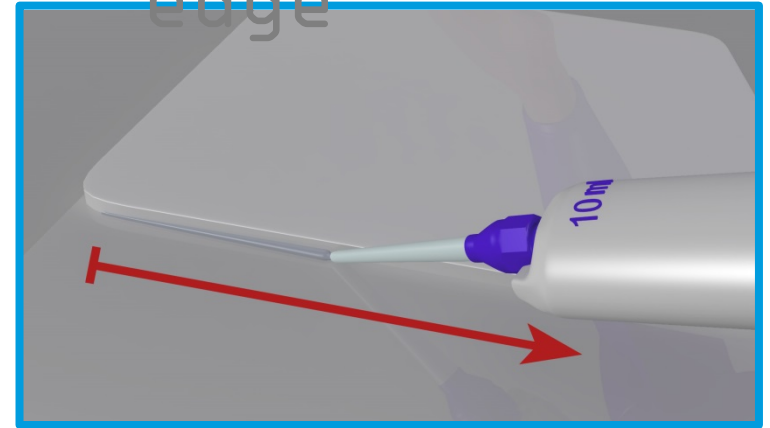
# 9 Press all surface



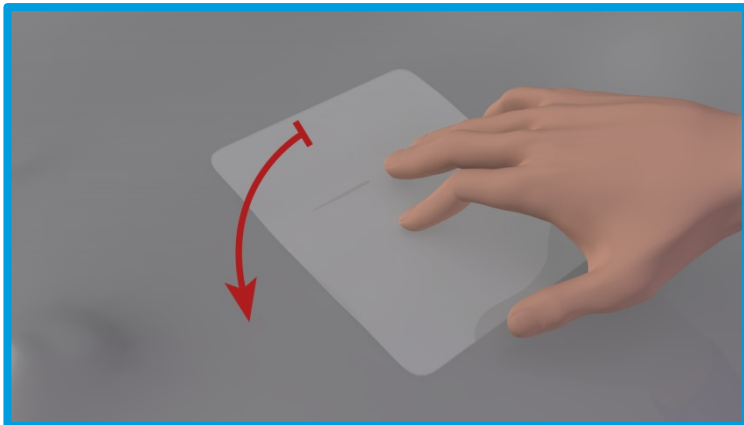
# 10 Pull mask tape



# 11 Overlap the edge



# 12 Wait 20 min





*“ DrSails has saved my around the world race”*

Pachi Rivero - Offshore skipper

**DrSails** /daktər selz/ **n 1** Innovative two-component epoxy based adhesive ideal for fast and flexible applications and even underwater curing. **2** A must in every sailor toolbox



# ADHESIVE PROPERTIES

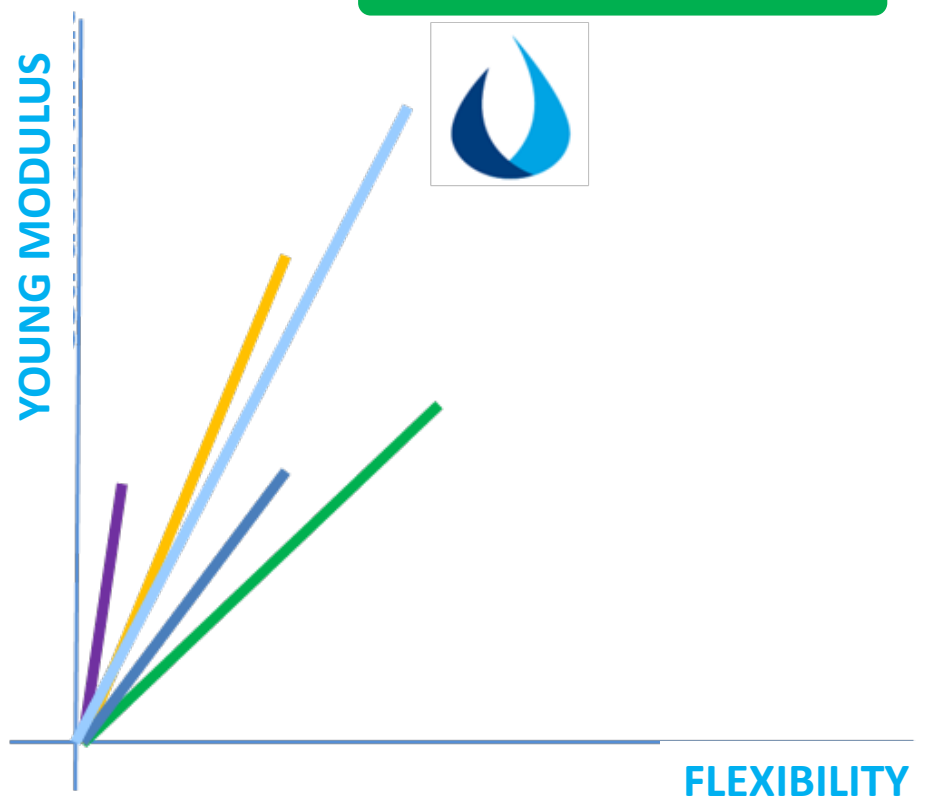
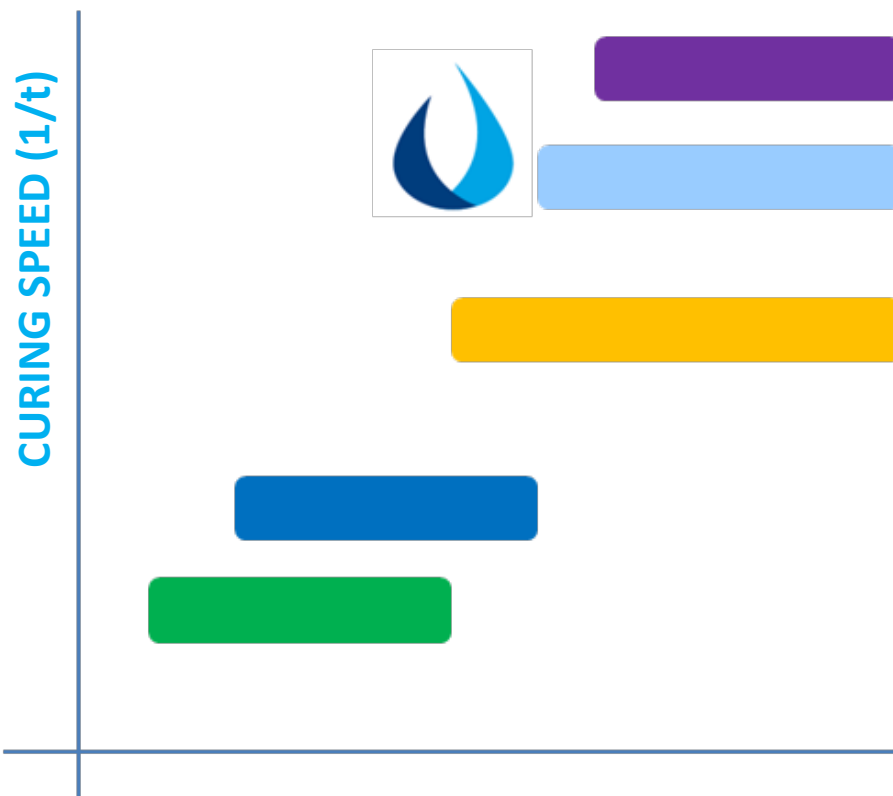
ACRYLATES

EPOXY

Dr Sails

POLYURETHANE

SILICONE







# PROPERTIES

*POT LIFE:* 8

min

*CURING TIME:* 20 min @ 20°C

*SHEAR STRENGTH:* 8.2 MPa @ Stainless Steel  
Overlap

*FLEXURAL MODULUS:* 108% @ Elastic & 160% at  
Pseudoplastic

*WORKING TEMPERATURE RANGE:* -9 to 60°C Tested

*CHEMICAL RESISTANCE:* Resist most common Chemicals.  
Needs mechanical abrasives to be

*DEGRADATION TEMPERATURE:* removed.  
3850°C

*SHELF LIFE:* 36 months stored @ 20°C





# Sewing Machines for Offshore



## Sailrite Ultrafeed

**\$800-\$900**



## Pfaff 130

**\$450-\$550 with upgrading**



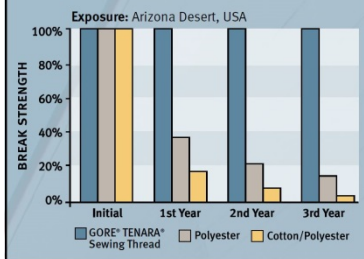


# What Ullman Sails Is Doing To Help You?



- Our Endurance and Voyager Series sails are sewn with 100% Gore Tenara Thread
- On Our Navigator Series we use it on the U.V. Cover
- Gore Tenara is not effected by U.V.
- Gore Tenara is stronger especially after the first year
- This allows you more trouble free sailing over a longer period of time

See how GORE® TENARA® Sewing Thread stacks up against other thread



# BAJA HA-HA XXII

## 2015 CRUISERS RALLY

OCTOBER 25 – NOVEMBER 7

SAN DIEGO CALIFORNIA TO  
CABO SAN LUCAS MEXICO



THANKS AND BE SAFE!





# Unlocking the Offshore Sail Inventory

The minimum and recommended inventory for cruising offshore

# Sail, That Is What Your Boat is Designed For





















# Roller Reefing

















# Not recommended for boats over 30'

- Twin headsail rigs
  - Boat needs to sail dead down wind
  - Boat rolls too much
  - Way too much hardware
  - Too many things to fail
  - Extra sails to store
  - Difficult to set up







# Recommended

- Asymmetrical spinnaker
  - No pole needed
  - Slows roll down of boat
  - More versatile

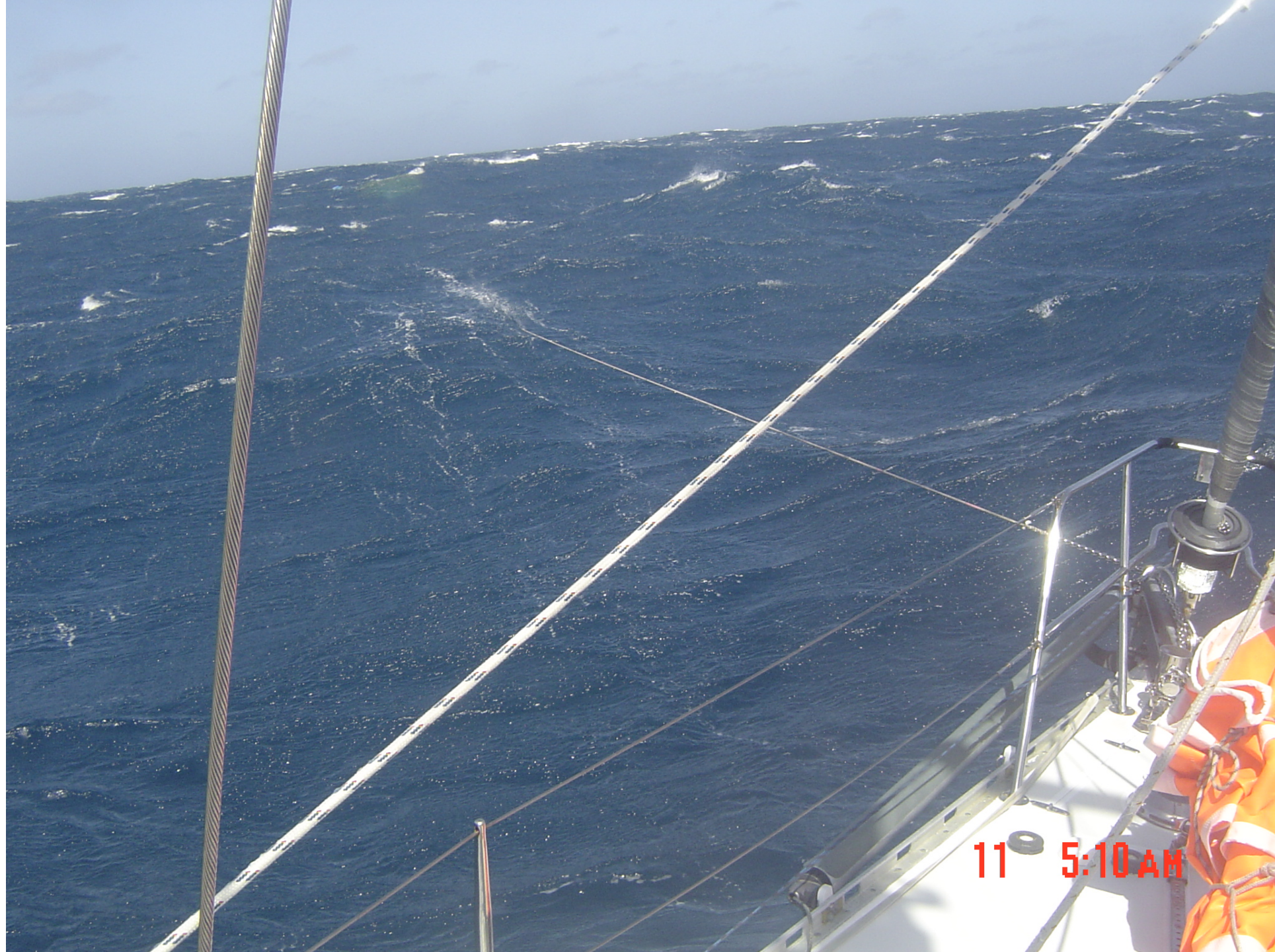






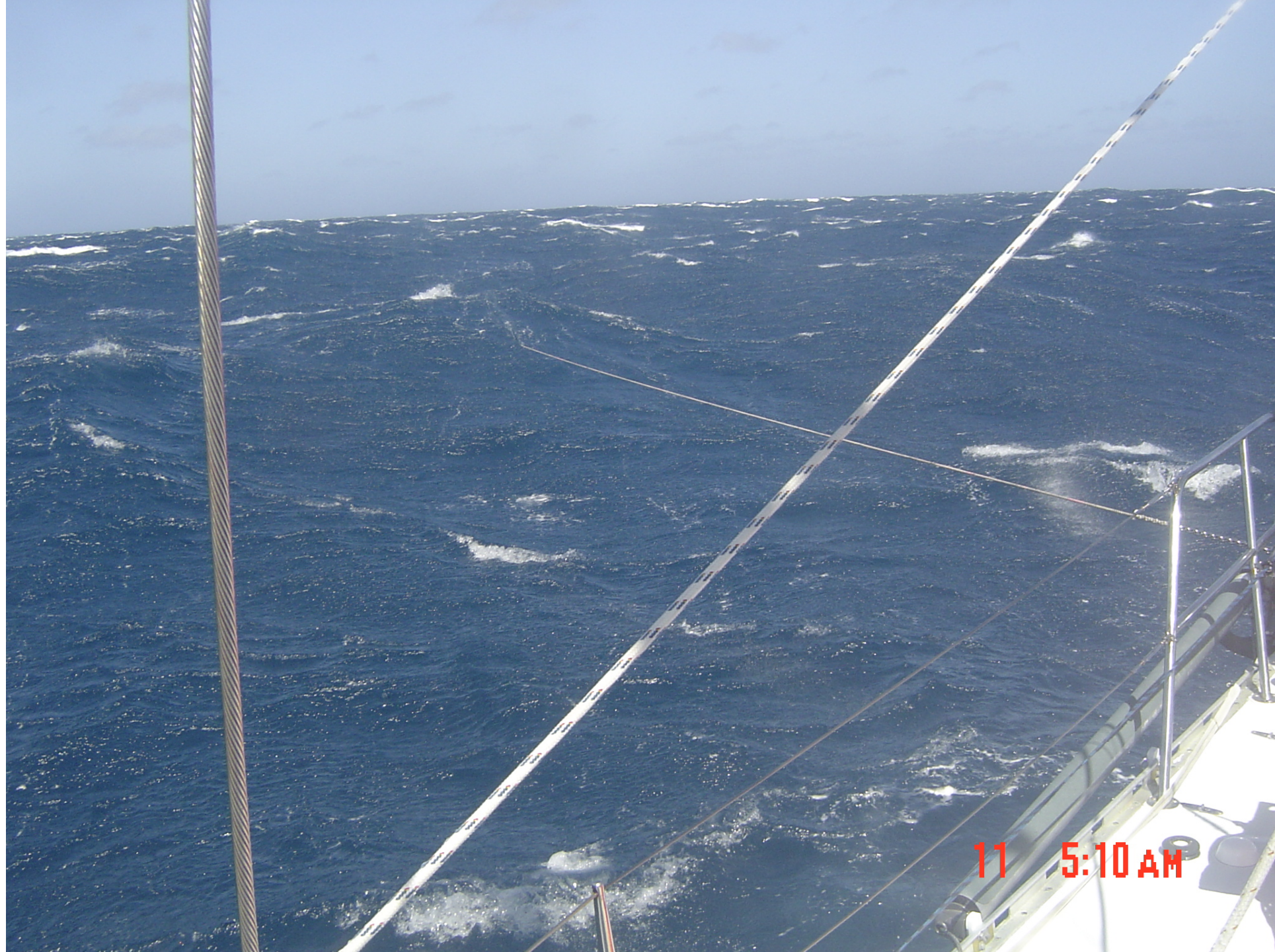
7 10:21 AM





11 5:10 AM





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22 8:32 AM















