



Sail & Kite Coating

Sails are one of the most sensitive components of a boat. Mechanical loads (maneuvers, strong winds) and environmental influences (water, salt) are a major factor for all canvas, foils and laminates.

Sail & Kite coating is a two-component canvas coating based on the chemical nanotechnology. The optical-ly neutral coating extends the **life**, increases the **performance** and simplifies the **handling**.

Sail & Kite coating is an effective shield against water, dirt and weather. The surface gets extremely slidable, reducing friction and facilitating handling of large fabric layers. Fast drying reduces the growth of mildew and mold formation.

Sail & Kite Coating thus significantly increases the life of the fabric.

Smooth, dry sails -> Better performance -> Optimal aerodynamics

Benefits:

- **Improve the gliding behavior up to 35%**
(trimming, setting and recovery of sails, fock or spinnaker)
- Significant reduction of friction in the mast groove and profile guard
- Strong waterproofing effect, very high water and dirt repellency
- **Up to 65% less water absorption** saves weight, reduces space requirements and minimizes drying times *
- Reduction of mold and stain formation
- Reduced air permeability optimizes aerodynamics
- Increase the breaking load of sail cloths without increasing the fabric weight
- Extremely high durability
- Resistant to cleaning chemicals
- Highly concentrated -> high yield
- Solvent-free -> No odour nuisance -> Can be used indoors and outdoors
- Non-combustible -> Non-hazardous material -> Free of biocides
- Easy application

Areas of application:

- Spinnaker, jib and mainsail, furling sails, kites etc...
- Waterproof coating for persenning, tents, pavillions, sun sails or awnings
- We recommend **Sail & Kite Impregnation** as a spray impregnation for fabrics that cannot be rolled out over a large area. (sprayhood, protective roofs, convertible top, sun shade, backpack, sailing-clothing, shoes, boat pillows, etc.)

* The data were collected in a combination of scientific tests and practical field tests. Untreated sails were compared with identical sails with a Sail & Kite Coating treatment. The drying times were measured at 23°C and 46% humidity.



Benefits in an overview:

Furling main sail/rolling foresail: Effect:	Smoothing, sealing and long-term impregnation of the canvas Better gliding when rolling in and out of the sail, protection against stains and mold formation
Main Sail/Headsail: Effect:	Smoothing, sealing and long-term impregnation of the canvas Water repellency, fast drying, dirt repellency, reduction of the mold and mold stains formation.
Luff & foot of sail: Effect:	Smooth operation by coating of the piping in the luff and foot Easier gliding in mast and profile grooves of the reefing systems, better cunningham and foot trim function
Spinnaker: Effect:	Cloth optimization Water repellency, fast drying, dirt repellency, reduction of the mold and mold stains formation, surface smoothing and protection of the material
Spi-Trompete: Effect:	Cloth optimization Better sliding behavior when hoisting & retrieving, water repellency, reduction of mildew and mold formation

Processing

Step No. 1

- Mixing and activation -
(using the example of a 125ml container)

Smooth Cloth types (spinnaker, kite, surf sail, tent):

1. Fill Component A completely into a clean bucket
2. Add 2 liters of tap water
3. Add Component B (Activator) and mix well
4. Use the ready-to-use solution within max. 2 hours

Rough cloth (large sails, headsail, persenning, sprayhood, deckchute, sun sails, awning, Spectra, Dacron or Mylar):

1. Fill Component A completely into a clean bucket
2. Add 1 liter of tap water
3. Add Component B (Activator) and mix well
4. Use the ready-to-use solution within max. 2 hours

Mixing ratios and ranges

Container	Amount of water (smooth cloth)	Yield (smooth cloth)	Amount of water (rough cloth)	Yield (Rough cloth)
50 ml	800 ml	20 - 32 m ²	400 ml	10 - 16 m ²
125 ml	2 liters	50 - 80 m ²	1 liter	25 - 40 m ²
1250 ml	20 liter	500 - 800 m ²	10 liter	250 - 400 m ²

The ratio between the component A and B is always 4: 1



Step No. 2 - Application -

1. Do not process at temperatures below 5°C
2. The material must be dry and free of salt residue and dirt
3. Spread the canvas on a clean surface and secure well
4. Sprinkle the prepared mixture with a sponge on the fabric to be treated
5. Spread the product with a mop or sponge
6. Spread generously over the entire surface
7. Avoid ponding or uneven application
8. Allow the fabric to dry completely (approx. 1 hour), then turn and repeat application
9. Allow unused product to dry
10. Disposal of empty bottles together with dried product remains in the residual waste

Do not spray on - health hazard by inhalation of the spray mist

Depending on the absorbency of the canvas, ambient temperature and humidity, it can take approx. 2-3 days to complete crosslinking and formation of the water repellent effect.
Load tests should only be carried out after sufficient waiting time.

Technical data:

Activated poly siloxane in water

Health:

Contains no free nano-particles.

Container sizes:

50ml / 125ml / 1250ml

Disposal:

Disposal of empty bottles together with dried product remains in the residual waste

Labelling / transport:

No dangerous goods according to ADR/RID/IMDG/IATA.

Storage:

At least 24 months in the closed original container. Protect from frost and direct sunlight.

Protective measures/Notes:

When processing, the instructions and the safety recommendations on the packaging must be observed. We would like to point out that when handling chemicals, the necessary safety measures have to be complied with. Keep out of the reach of children. This technical information has been compiled on the basis of the latest state of the art and our experience. However, with regard to the variety of substrates and object conditions, the user is not released from his obligation to check our materials on their own responsibility for their suitability for the intended use under the respective object conditions in terms of craftsmanship. As application and processing are outside our control, no liability can be derived from the content of the technical data sheet. The information and instructions in the safety data sheet shall be complied with in all cases. No liability is assumed for improper handling. In the case of a reprint, this printed copy loses its validity.

All information on the product can be found here:

www.sail-and-kite.com

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