

CARE & MAINTENANCE

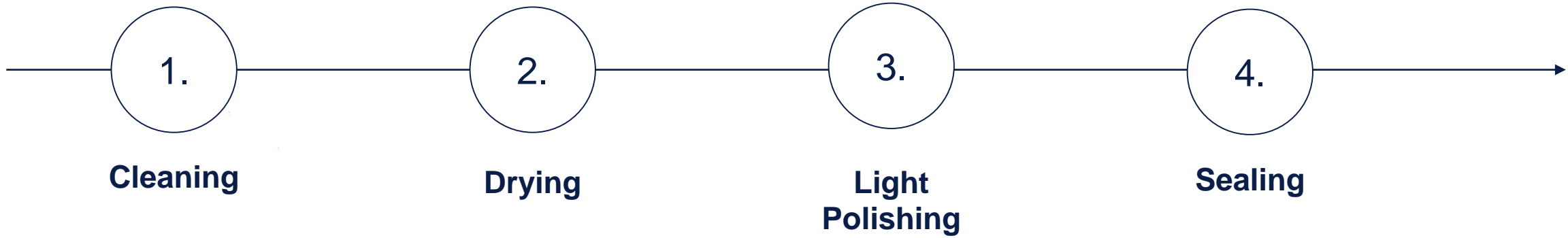
Agenda



1. Process Description
2. Equipment & Products
3. Removing salt & stains
4. Special Finishes
5. Effects of false care

Process Description

Process Description – Overview



Process Description – 1. Cleaning



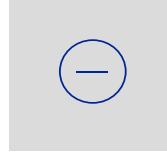
- Before rinsing make sure to perform a **general water hardness test**
- Rinse down the paint surface with **osmosis water** until loose deposits are washed off
- A **water softener shall be used** to overcome hard water spots
- Paint surface should be washed **once a week**
- **Use mild detergent** formulated specifically for paint finishes
- **Do not use** abrasive brushes, pads or cleaning agents
- **Use only** soft clean wash mitts and brushes
- **Dry the surface immediately** afterwards to prevent water spots

1. Cleaning – Do's & Don'ts



Do's

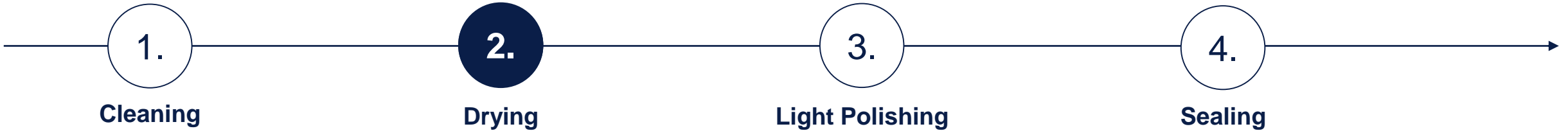
- Use professional equipment to clean the surface
- Take away any surface contamination immediately, e.g. bird dropping, oil, sun cream, sand, etc.
- Use mild cleaners
- Use quality waxes or polymer sealer designed for painted surfaces
- Take special care of spots where water can remain on the paint



Don'ts

- Clean hot surfaces in direct sunlight
- Press the surface too hard with the cleaning equipment
- Use abrasives, scratch pads, nylon woven pads or polishing compounds
- Allow contact between topcoat and teak cleaners
- Use metal polishes on topcoat
- Use household cleaners and concentrates on the topcoat (as they may have a high alkalinity and therefore tend to be too harsh)
- Use oxalic acid based products or teak cleaners on topcoat

Process Description – 2. Drying



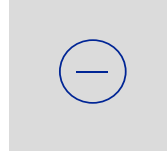
- After washing, get the paintwork **dry as soon as possible**
- The direct drying after washing is **essential to prevent water marks**
- For drying use **proper and clean microfibre cloth**
- Dry the clean surface **thoroughly**

2. Drying – Do's & Don'ts



Do's

- Dry the paint as soon as possible
- Use a clean microfiber cloth to remove water beads
- Dry the yacht from top to bottom to further reduce the incidence of scratching



Don'ts

- Do not use excessive force when wiping the paint dry
- Do not wipe the paint with a towel

Process Description – 3. Light Polishing



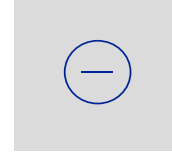
- Occasionally **light polishing may be needed** to maintain the finish
- Light polishing must be done **by hand or slow speed polishing machine**
- **Using a compound / polish** and a pad recommended by the polishing product's manufacturer
- **Avoid aggressive polishing** which could remove excessive coating from the surface and reduce durability of the paint
- **Use a protective wax or polymer sealer designed for painted surfaces** at least 2-3 times per year to help maintain the gloss

3. Light Polishing – Do's & Don'ts



Do's:

- Clean the surface prior starting
- Dry the surface
- Apply compound evenly
- Use a clean polishing pad
- Place the pad on the surface prior to start the machine
- Move the polishing pad in small circular motions
- Start with slow polishing speed
- Use the correct amount of polishing compound



Don'ts

- Use a coarse polishing compound
- Push down hard on the polishing machine
- Use excessive speed with the polishing pad
- Polish in direct sunlight or if the surface is hot
- Allow the compound to dry on the surface

Process Description – 4. Sealing



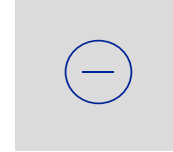
- Dirt is **embedded into the surface** with the sealer if not sufficiently cleaned before
- Apply a polymer sealer **after every polishing**
- Apply the sealer with a clean cotton cloth or applicator pad
- Let the sealer **dry** to a haze but **not for too long**
- **Wipe off** with a second clean cotton cloth or microfiber towel
- **Apply a high quality wax or polymer sealer** at least 2-3 times per year

4. Sealing – Do's & Don'ts



Do's

- Clean and dry the surface thoroughly before sealing
- Use clean equipment to seal the surface (100% cotton cloth or applicator pad)
- Let the sealer dry to a haze before removing with a clean cotton cloth or microfiber towel



Don'ts

- Let the sealer dry on the surface for too long
- Enclose dirt and other contaminations underneath the sealer
- Seal hot surfaces in direct sunlight

Equipment & Products

Equipment – Cleaning

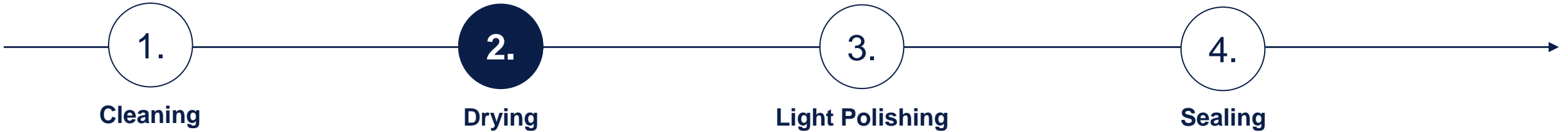


Using the correct equipment is very essential

- Brushes → only use ultrasoft fiber brushes on painted surfaces to avoid scratching the paint
- Sponges → either natural or synthetic sponges will help to keep the surface wet
- Cloths → lint free cloths, high quality micro fibre cloths will produce excellent results without the risk of scratching the paintwork
- Washing Gloves → allow more control over the chemical and detergent impact on sensitive surfaces



Equipment– Drying



Using the correct equipment is very essential

- Synthetic chamois and clean towelling are the best traditional allies for this task
- Water scraping blades, a soft, flexible silicone blade that can remove water without scratching the surface
 - Water blades can help to dry the surface faster than a chamois rag
 - The use of water scraping blades does not eliminate the requirement of synthetic towels



Equipment– Light Polishing



Using the correct equipment is very essential

- A polishing machine with a maximum of 3000 rpm is recommended for light polishing



Equipment– Sealing



Using the correct equipment is very essential

- Always use a smooth microfiber cloth for sealing
- Make sure to use different cloths according to the two cloth method
- Alternatively, a polishing machine can also be used for sealing



Products – Cleaning



ALEXSEAL Premium Wash Down

- Designed to clean topcoats
- Neutral in PH
- Biodegradable
- Does not include abrasives
- Cleans dirt, grease/oil stains and salt off surfaces
- Will not remove wax or polish from the painted surface
- Available in US quart and 1,25 gallon containers
- Refillable 'Tip 'N' Measure' container



Products – Cleaning



Other recommendations

- 3M Multi-Purpose Boat Soap
- Aquatech 501 Boat Wash Concentrate
- Boat Life Boat Soap
- Liquid Glass[®] Wash Concentrate
- Meguiar's Flagship Premium Marine Wash
- Sudbury Boat Soap



Or alternative products designed for washing paint

Products – Drying



Product recommendations

- Chamois leather, is highly absorbent and gentle on yacht surfaces. It is often used for drying the hull and other large areas
- Squeegees with rubber blades are excellent for efficiently removing water from flat surfaces like decks
- Microfiber cloths are excellent for drying and cleaning delicate or polished surfaces without leaving streaks or scratches



Products – Light Polishing



Product recommendations

- 3M Perfect-it Extra Fine PLUS Polish (yellow lid/80349) with 3M Perfect-It Yellow Foam Pad
- Optional for dark colors: 3M Perfect-It Ultra-Fine Polish (06068/06069) by slow speed machine with 3M Blue Foam Pad (05733)



Or alternative products designed for polishing paint

Products – Sealing

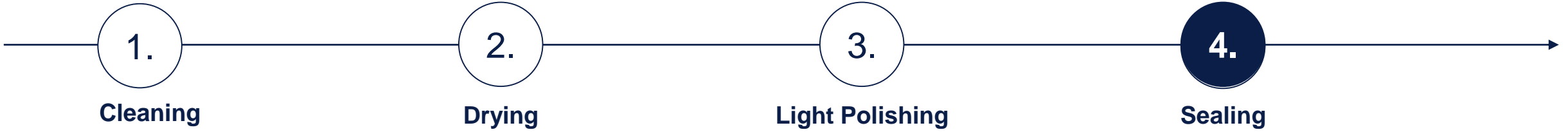


ALEXSEAL Premium Polymer Sealer

- Non-abrasive
- UV absorbers will help protect the paint from exposure to the sun and pollution
- Improves the coatings' life expectancy
- Leaves behind a protective polymer coating which will seal the surface
- Available in US quart and 1,25 gallon containers



Products – Sealing



Other recommendations

- 3M Scotch Guard Liquid Wax (9061 / 9062)
- Aquatech 201 Premier Polish
- Liquid Glass® Polish / Finish
- Meguiar's Flagship Premium Marine Wax



Or alternative products designed for waxing paint

Removing salt & stains

Cleaning Procedure – Removing Salt Residue

- After deposition on the surface, **salt residues** can act like an **abrasive** during washing procedure
- Remove dried salt residue by **washing the surface with a warm water and white vinegar solution as soon as possible**
- Dilute the distilled white vinegar **1:1** with warm water and wash the surface
- **When finished, rewash** the surface with a mild detergent and osmosis water



Cleaning Procedure – Removing Stains

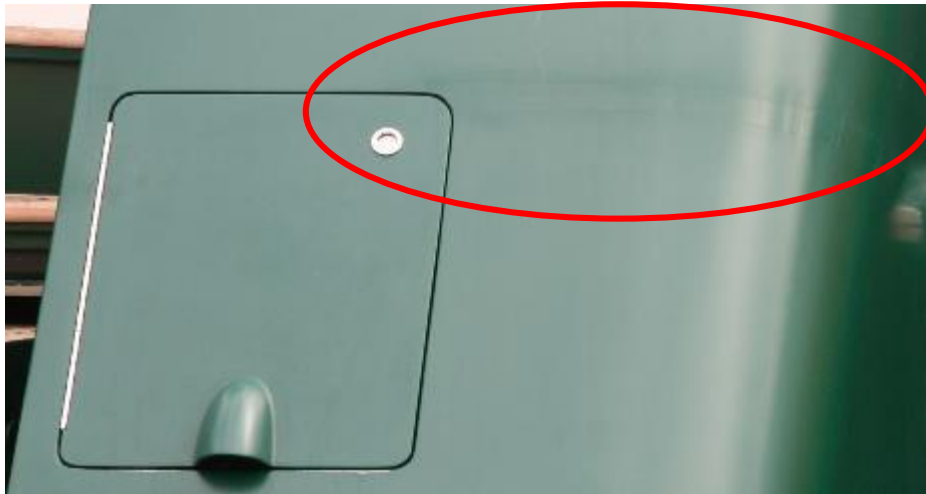


- **Remove stains** as soon as possible
- Some **stains** can **etch the paint** e.g. hard water, acid water, bird droppings
- If a stain cannot be removed with a mild detergent during the washing process, **solvents may be used** to loosen the stain
- **Start with mild solvents** such as Mineral Spirits or denatured Alcohol
- **Harsher solvents** such as Acetone and Lacquer Thinner should be removed immediately and only be **used as a last resort**
- After removing the stain with solvent, **wash the area with a mild detergent and osmosis water** to remove all solvent residues

Special Finishes

Special Finishes – Semi Gloss & Matte

- Semi gloss and matte finishes tend to need more care in general
- They also get dirty more quickly
- Light polishing is not possible and will cause a higher gloss level

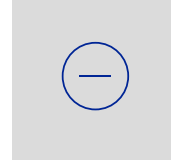


Special Finishes – Semi Gloss & Matte



Do's

- Take extra care with regular cleaning
- Remove any dirt immediately



Don'ts

- Polishing
- Spot repair
- Wear and tear
- Excessive rubbing
- Use mechanical washing equipment or hard brushes
- Wash when the surface temperature is too high
- Wash in direct sunlight

Effects of false care

Effects of false care – Teak Cleaners

Teak deck detergents – effects on paint

- Detergent residues may steadily etch or bleach the paint

Never place a wet bucket of teak cleaning detergent on paint work. Within few moments the water can etch the surface and the paint will be bleached



Effects of false care – Diesel Soot

Diesel soot – effects on paint

- Diesel soot sticks on the surface, when it comes out of the exhaust pipes
- When it stays on the surfaces it „burns“ into the paint. Polishing becomes necessary

Remove Diesel soot immediately



Effects of false care – Bird Droppings

Bird droppings – effects on paint

- As first step bird droppings shall be rinsed off with fresh water before cleaning with any kind of rags
- When they stay on the surfaces they „burn“ into the paint because of the sun's heat. Polishing becomes necessary

Remove bird droppings immediately



Effects of false care – Rust Remover

Rust remover – effects on paint

- Detergent residues may steadily etch or bleach the paint

Remove rust remover immediately



Effects of false care – Sunscreen

Sunscreen – effects on paint

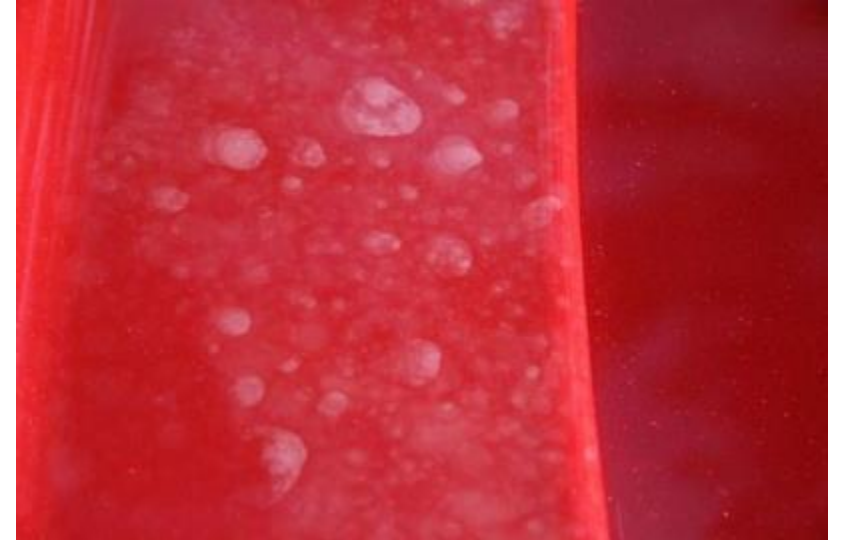
- Residues will stick on the surface and will burn themselves into the paint and damage it
- If they are not removed immediately, they may be impossible to remove. Polishing becomes necessary

Remove sunscreen marks immediately



Effects of false care – Water Spots

- Often caused by hard water or poor drying process
- Can often be washed off easily, using a vinegar solution or a proper detergent
- Results of washing are depending on:
 - The type of mineral
 - the duration on the surface
 - the temperature in which the mineral may have become baked on
- Complete removal can be complicated and is not always possible



Q&A



Long-
lasting
high
quality
finishes

**Thank you
for your attention!**

We are looking forward to working together.

Mankiewicz Unternehmensgruppe

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