



**COELAN<sup>®</sup>**



**COELAN<sup>®</sup>**  
***Boat Coating***

Including Application Guidelines

## **COELAN® Boat Coating – Transparent or colored long term protection**



### ***The Problem...***

Ships and boats are frequently exposed to a combination of sunlight, rain, saltwater, wind and other negative effects of the environment. This can result in dried and discolored decks and other wood surfaces along with hairline cracks and crazing of gel coats.

**Do not give the weather a chance!**



before



after

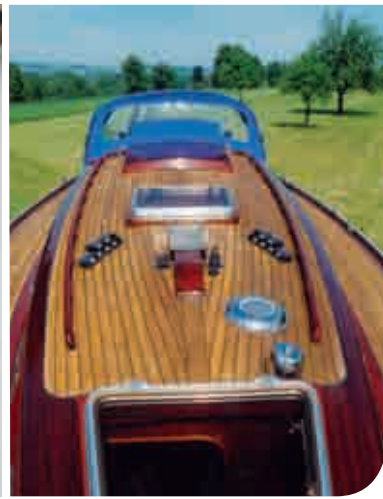
### ***...the solution: COELAN® Boat Coating***

As a result, your boat deck will look new again and will be protected from the combined negative influences of the weather and hard use for many years to come.

Product properties:

- absolutely UV and light resistant
- easy to use
- extremely durable
- water vapor permeable – allows moisture to dissipate
- highly elastic
- easy to apply by brush, roller or spray
- bridges small cracks
- high wear and abrasion resistance
- highly resistant to solvents, alcohol, gasoline and cleaning agents





## Applications

- wood, steel, aluminum and fiberglass (GRP) surfaces.
- for dinghies, rub rails, fenders, cushions etc.
- multiple uses in and around the boat and home
- optional non skid surfaces are easy to create and apply
- colored coatings are available

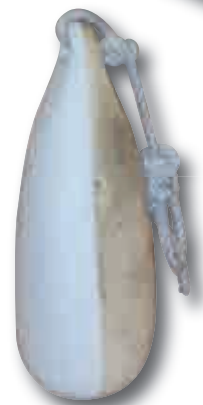
## **Multiple uses in and around the boat.**

COELAN® Boat Coating is a versatile, highly weather resistant and top quality product and is not just for deck application. Many surfaces and materials can take advantage of COELAN® Boat Coating's unique properties. As a result, demanding boat owners and builders are realizing substantial long term surface protection and extended maintenance intervals. All of this translates into boat owner savings due to reductions in repetitive maintenance labor and material costs.

It is generally understood that dinghies and boating fenders are not resistant to oil, fuel, solvent and UV light. This can lead to an undesirable appearance and costly breakdown of the rubber material.

Inflatable dinghies are often carried on davits or secured on deck. As a result the exposed rubber or fabric surface is subject to damage caused by the combined effects of the environment, UV light, sand and abrasion from tie downs and the deck.

The application of COELAN® Boat Coating to fully inflated dinghies and fenders not only restores the color or appearance of the rubber surface but provides extended service life due to the coatings high elasticity (over 300 %) and abrasion resistance.







## Wood refurbishment

A well maintained teak deck is always noticed on board a sailboat or motor yacht. However, due to effects of the environment and pollutants in the atmosphere, deck surfaces and other exposed wood becomes dirty and unattractive.

This can be prevented by a timely application of COELAN® Boat Coating to cover all exposed wood surfaces. Any solid wood, plywood or composite wood construction can be protected.

The high quality COELAN® Boat Coating can be applied to boat decks, spars, hatch covers, railings and many other surfaces above the waterline. Simply apply a coat of the appropriate COELAN® Boat Primer. This is followed by several layers of our polyurethane based liquid polymer coating. The restored deck or wood surfaces will not only look new but be protected from environmental elements for many years with little if any touch up required. Upon the laying of new teak decks, an immediate application of COELAN® Boat Coating is always highly recommended.





## Guideline for COELAN® Boat Coatings on Wood:

### Teak Deck

A well-maintained teak deck is always generates a positive comment on board any boat. New teak decks should be immediately protected with COELAN® Boat Coating!

**Preparation:** If the wood surface contains old varnish or paint, this material must be removed with a soft brush across the grain or / and it should be gently sanded with sandpaper (grain size #80). Sanding dust must be thoroughly removed by vacuum cleaner. Please do not use any solvents! (Note: # 80 sanding paper has been determined to create the optimum surface preparation.)

**Renovation:** Very often a renovation is required due to torn joints and water damaged or severely cracked planks. You will find work easier if you remove all near by deck fittings before starting work or sanding. It is essential to measure the moisture content of the wood and to ascertain whether there is water between the sub-deck, its support beams or the deck planking. Wood moisture also should be measured in the internal area or core of the planking. If an electronic moisture meter is not available and if required: drill an 8 mm – 12 mm (5/16" to 1/2" diameter) hole into the center portion of the deck plank. Check for moisture by inserting a piece of rolled up kitchen paper towel to determine if there is water internal to or beneath the wood. If moisture is found then appropriate measures must be taken to find and repair the source of the leak and to thoroughly dry out the wood and underlying surface area prior to applying any primer or coating. Please check and if necessary repair all deck joints and cracks, adjacent deck planks and broken or loose bungs. Remove loose joint sealing compound, and with a sharp object (knife, chisel or scraper) clean the bonding surface out of the joint and remove loose material with a vacuum cleaner. Reseal / recaulk the joints as required. Do not use any silicone based sealant product.

**Primer:** After preparation, the wooden surface must be primed with COELAN® Boat Primer. The priming process must be repeated several times until the wood pores are filled. Typically two coats of primer will suffice. The relevant drying times must be observed. The end or butt section of the wood must be primed several times. Small cracks (less than .125") can be filled with PUR-based (polyurethane) joint-compound (please observe the relevant drying times). Remove or trim any excess compound.

**Coating:** The prepared surfaces can now be coated (please refer to page 10).

### Softwood

(Pine, Fir, Larch, Spruce etc.)

**Preparation:** The surface is to be gently sanded across the grain with sandpaper (grain-size #80). Sanding dust must be removed by vacuum cleaner. Please do not use any solvents! The end or butt section of the wood must be primed several times with COELAN® Boat Primer.



### Hardwood

(Oak, Teak, Mahogany, Red Ironwood etc.)

#### Preparation:

Please see "Teak deck Preparation".

#### Renovation (Softwood and Hardwood):

The surface should be sanded thoroughly but carefully down to the sound wood with a slow turning eccentric grinder (grain-size #80). Do not aggressively sand as this will cause hollows or an uneven surface. With mahogany, the entire sun bleached surface should be carefully sanded away until a natural red shade is reached. Sanding dust must be removed with a vacuum cleaner. Please do not use any solvents!

Large cracks in excess of .125" should be milled out creating sharp edges by means of a surface miller. Fill the void with either epoxy resin or with the same kind of wood secured in place with marine glue or epoxy resin. Plane down projecting edges.

#### Primer (Softwood and Hardwood):

After preparation, the wooden surface must be primed with COELAN® Boat Primer. The priming process must be repeated several times until the wood pores are filled. Typically two coats of primer will suffice. Small cracks (less than .125") can be filled with PUR-based (polyurethane) joint-compound. Remove or trim any excess.

#### Coating:

The prepared surfaces can now be coated (please refer to page 10).

Surfaces with existing paint or varnish that are completely free from any defect can be coated without priming, after checking carefully and gently sanding with grain-size #80. Please check for compatibility!

#### Colors of COELAN® Boat Primer:



red pigmented



yellow pigmented

100% color accuracy cannot be guaranteed due to printing techniques.



## Fiberglass (GRP) refurbishment

Fiberglass (GRP) boats and surfaces can also take advantage of the unique and high quality properties of COELAN® Boat Coating. Again, due to effects of exposure and heavy use, the surfaces begin to develop hair line cracks, crazing and overall chalking and fading of color. If this is the case then a surface refurbishment is urgently needed to prevent further and potentially more costly damage from occurring. COELAN® Boat Coating can be applied with any one of 7 factory colors to match existing colored surfaces or create custom colors or decorative areas (please refer to Page 11).

### Preparation:

GRP surfaces must be free of grease and sanded down thoroughly with sandpaper (grain size #80). Remove sanding dust with a vacuum cleaner. Please do not use any solvents! Larger or deeper cracks (in excess of .125") should be filled with epoxy resin filler and sanded down again after drying. Smaller hairline cracks (less than .100") can be covered with the coating.

### Coating:

In order to achieve either COELAN® standard or unique custom color shades according to our standard color chart or scheme it is necessary to add the complete contents of the color paste tube to the can containing transparent COELAN® Boat Coating. Using a slow turning motor driven or hand held paddle and mix the color paste carefully until it is free of bubbles and streaks to achieve a homogeneous mixture. The mixed material should be applied immediately (please refer to Page 10).

### Usage:

One tube of color paste per 375 ml – 25.4 fl.oz. of COELAN® Boat Coating (2 tubes for 750 ml – 25.4 fl.oz; 8 tubes for 3 L – 3.17 qts.). All colors can be intermixed to create custom colors.





## Refurbishment of Steel Boats

COELAN® Boat Coating can be applied to steel and aluminum vessels or surfaces on top of any intact corrosion protection or any defect free existing coating product or paint. The metal surface refurbishment is easily accomplished by selecting one of the 7 standard colors and mixing with COELAN® Boat Coating transparent gloss coating then applying by brush, roller or spray.

### Preparation for Steel Boats:

Adhesion of existing coatings must first be checked via a self-adhesive tape test. Apply a section of self-adhesive tape to the surface. Press it firmly on the surface and then remove it in one brisk movement. If the old paint layer remains intact, you can precede to overcoat it. Otherwise degrease the old coating and sand it down with sandpaper (grain-size 80). Any rust should be removed and primed with an anticorrosive primer. Allow the primer to dry and fill any larger irregularities with epoxy resin filler.

### Preparation for Aluminum Boats:

The surface should be sanded and treated with a thin film of wash primer.

### Coating:

In order to achieve either COELAN® standard or unique custom color shades according to our Standard color chart or scheme (or individual colors), it is necessary to add the complete contents of the color paste tube to the can containing transparent COELAN® Boat Coating. Using a slow turning motor driven or hand held paddle and mix the color paste carefully until it is free of bubbles and streaks to achieve a homogeneous mixture. The mixed material should be applied immediately (please refer to Page 10).



## Rubber dinghies, Fenders and Sheer Rails

Rubber dinghies are often carried on davits or secured on deck. The relatively thin skin of rubber quickly becomes brittle due to UV-radiation, sand and mechanical abrasion on seats and hull. In addition most fenders and sheer or rub rails are subject to constant abrasion and not resistant to oil, fuel or solvents. Clean and degrease all surfaces thoroughly with soap and water and scouring pad then rinse with a good quantity of clean water.

In order to achieve the best results, the dinghy or the fender should be fully inflated.



### Preparation:

Degrease the surface with soap and rinse it off with clear water. Afterwards roughen the whole surface with sandpaper (grain-size 80) and remove the sanding dust. Please do not use any solvents! Lay the dinghy bottom up on two trestles and start priming.

### Priming:

As appropriate apply a wafer-thin coat of COELAN® Flexo Primer or COELAN® Flex LE Primer (approx 50 – 70 ml / sq. m. or 1.7 – 2.4 ozs. / 10 sq.ft.) with a soft brush or rub it on with a lint-free cloth. The primer will be sufficiently dry depending on ambient environment in approximately 30 – 45 minutes. Please do not primer more than you can coat within half an hour! Then apply COELAN® Boat Coating.

### Coating:

In order to achieve either COELAN® standard color scheme or unique custom color shades according to our standard color chart it is necessary to add the complete contents of the color paste tube to the can containing transparent COELAN® Boat Coating. Using a slow turning motor driven or hand held paddle and mix the color paste carefully until it is free of bubbles and streaks to achieve a homogeneous mixture. The mixed material should be applied immediately (please refer to page 10).

### Usage:

500-700 ml/m<sup>2</sup> or 17 – 24 fluid ounces / 10 sq.ft of COELAN® Boat Coating (depending on the surface).



## COELAN® "Antislip" For additional safety in working areas

COELAN® Boat Coating is inherently slip-resistant. However, for added safety in working areas such as around the mast and near the fore-sail and windlass, we recommend the addition of Antislip Glass Powder. Antislip surfaces are always laid on a finished surface. The application is also possible on defect free existing paint layers, steel and aluminum boats or GRP surfaces.

### Preparation:

Sand down the surface with sandpaper (grain size #80). Apply masking tape to define coating boundary areas and cover any cover nearby fixtures or components.

### Coating:

The taped off surfaces must be cleaned with a vacuum cleaner. Then apply a coat of 250 ml/m<sup>2</sup> - 8.5 fl.oz / 10 sq.ft COELAN® Boat Coating (please refer to page 10). The coating can either be transparent or colored. Before scattering in the glass beads, please carefully remove any boundary tape. The glass beads should now be sprinkled over the coat while it is still

wet. For this purpose use a can like a salt shaker or hand held strainer. After drying for approx. 12 hours, remove the surplus of loose glass beads. If free from dirt and debris these beads can be used again.





## Rules & Hints

### Wood:

- The retained moisture in wood should be less than 15 %. In the case of older wood it is also necessary to check the retained moisture in the internal area or core of the planking.
- Hard wood, hull interiors, superstructures and deck planks need to be vapor sealed internally to avoid effects of moisture travel via natural convection from inside to the outside surfaces.
- Ensure that there is no water beneath a mounted deck and that no water can penetrate at any time.
- Protruding wood fibers or dirt in transparent coatings can only be sanded after the first or second coating layer has been applied. Otherwise the color and UV pigments in the primer will be removed.

### General Information:

- Like many other coatings COELAN® will not adhere to silicon filled joints or silicone surfaces..
- Polyethylene and Polypropylenes cannot be coated.
- Do not use any solvent for cleaning.
- Painting intervals within one week do not require intermediate sanding.
- Adhesive tape should be removed immediately after coating (before curing).
- Copper (pipes, sheet plates or rust) in contact with water will cause brown discoloration of coatings. Discoloration cannot be cleaned. Vegetation can also cause discoloration.
- COELAN® Boat Coating can be removed with a hot-air gun (600° C / 1100 F approx.) and a good scraper or spatula. Be careful not to burn or scorch the underlying surface.

### Maintenance of industrial health and safety standards:

- The use of liquid polymers requires good workmanship and it is very important to follow the COELAN® work and safety instructions found in this brochure and according to our product Technical Data Sheets (TDS).
- Observe statutory safety regulations and instructions on packaging labels. Text and symbols draw attention to the most important points to be followed while using our products. Refer to product MSDS's for more details.
- Use a fresh air circulating mask and good ventilation for spray applications, in accordance with the regulations for hazardous material.
- Always wear safety gloves and protective eye wear while working with liquid polymers.



## Tips & Tricks

- Good working results require good tools.
- We recommend using short nap foam rollers and, for smaller areas, high quality brushes.
- Always gently sand wood in the direction of the grain.
- Always use sanding paper grain size #80, for sanding wood, plastic and steel. A random orbit electric sander is best suited. For joints with sharp edges, you will find a surface miller quite helpful. Tools like paint spray mask, safety gloves, turbo-hot air gun and sharp scrapers are also useful. For sanding corners a fine universal sander is a very helpful tool.
- Application temperatures 5° C – max. 30° C / 40F – 86 F.
- Do not apply COELAN® Boat Coating in direct sunlight.
- Use only COELAN® Thinner for diluting the material or cleaning tools, dirt or surface wipe down.
- The COELAN® Boat Coating system is a moisture hardening product, therefore containers should be used up after opening when ever possible.
- If you can foresee that the coating material will not totally be used, decant as much COELAN® Boat Coating as you need into a clean container and then exchange the remaining air column in the original container with dry air by means of a hair dryer or a hot-air gun.
- The viscosity of the coating can vary depending on temperature and storage condition. If necessary dilute with COELAN® Thinner.
- Frequently or already opened tins or pails may contain cured material. Filter if necessary.
- Coelan Coating contains strong adhesive characteristics due to it forming a chemical and mechanical bond.
- When applying Coelan to small pieces it is recommended to separate the working piece from the table top with a layer of wax paper.



## Care

- Use clear (salt)-water to clean the applied fully cured coating.
- Water soluble cleaner without alcohol (low-level pH-value up to 7) can also be used for cleaning.
- Do not use any floor wax, furniture polish or strong chemical or abrasive cleaners on the applied coating surface.

## Refurbishment & Repair

Damage to the coating surface should be repaired immediately. Sand down the damaged area diagonally with sandpaper (grain #80). The depression should be filled layer by layer with COELAN® Boat Coating.

### Preparation for surface Refurbishment:

- Clean the surface with mild soap and rinse off with clear water to degrease.
- Let the surface dry, then sand with #80 grain sand paper.
- Sanding dust should be removed by vacuum cleaner. Please do not use any solvents. Now the actual refurbishment film can be applied. Minimum usage 300-400 ml/m<sup>2</sup> / 10 – 14 fl.oz per 10.5 sq.ft. To ensure refurbished wood color match for transparent wood coatings it is possible to apply a film of the corresponding COELAN® Boat Primer (available in yellow or red).

## Coating System

COELAN® Boat Coating should be applied evenly in several coats (around 5-6 coatings). Usage is about 1000 ml/m<sup>2</sup> - 34 fl.oz / 10.5 sq.ft for a finished surface. Horizontal surfaces: The various coats can be applied evenly and generously with overlaps using a clean, well prepared brush or foam roller (must be resistant to solvents).

Vertical surfaces: To prevent the coating from dripping, it should be thinned with COELAN® Thinner (about 10 % to 30 %) where necessary, depending on atmospheric humidity. The number of individual coats should then be increased correspondingly (approx. 8-10 coats). Drying time for each coat is between 2 and 6 hours, depending on weather and relative humidity. A full working cure is normally achieved after 7 days. After a drying time of more than one week between different coats the surface should be sanded to enhance bonding of old and new layers.

### Important:

Specified product usage rates must be maintained. Good results can be achieved by using the spray coating method. For additional information on spray applications of COELAN® Boat Coating please refer to the special paper "Spray Application of COELAN® Coatings".

To achieve the different colors according to the standard color scheme for individual colors please use the complete color paste tube contents. Mix the color paste and the COELAN® Boat Coating until it is free from bubbles and streaks to achieve a homogeneous mixture. The mixed material should be used immediately.

### Usage:

One tube of color paste per 375 ml – 12.7 fl.oz  
COELAN® Boat Coating (2 tubes per 750 ml – 25.4 fl.oz; 8 tubes for 3 L) All colors can be intermixed to create custom colors.





## Product Description

### COELAN® Boat Primer

(yellow or red pigmented)

Is an elastic yellow or red pigmented primer for soft and hardwood.

- Yellow for teak, pine, fore, fir, larch, spruce etc.
- Red for wooden surfaces sensitive to light for example mahogany

Usage: about 200 ml/m<sup>2</sup> - 6.8 fl.oz / 10 sq.ft per layer (depending on the absorbency of the substrate)

Unit size: 750 ml / 25.4 fl.oz tin

A primer is only required for untreated or bare wooden surfaces.

### COELAN® Boat Coating

**One-component, transparent gloss**

COELAN® is a high quality product formulated and intended for heavy-duty use. High elasticity, resistance to UV rays and abrasion and permeability to water vapor are the main features of this product. (Available in transparent gloss and 7 color shades to intermix with Color Paste. See standard color scheme chart.

Usage: 1000 ml/m<sup>2</sup> - 34 fl.oz / 10 sq.ft.

Unit size: 375 ml – 12.7 fl.oz tin / 750 ml – 25.4 fl.oz tin / 3 L – 3.17 qts pail

### COELAN® Boat Coating

**One-component, transparent, silk (satin) finish / matte finish**

Applied as a single layer finishing coat on top of transparent gloss boat coating when a silk-finish surface is desired. Due to the increased danger of skidding, the silk finish / matte finish material should not be applied on walking or working areas of decks. In addition the silk finish / matte finish coating may not be pigmented with our colored paste and not used for spray application.

Usage: 200 ml/m<sup>2</sup> - 6.8 fl.oz / 10 sq.ft.

Unit size: 375 ml – 12.7 fl.oz tin / 750 ml – 25.4 fl.oz tin

Color scheme / Standard Colors:



Cream-white  
ca. RAL 1013

pure orange  
ca. RAL 2004

bright red  
ca. RAL 3000

silver grey  
ca. RAL 7001

mahogany-brown  
Ca. RAL8016

black  
ca- RAL 9005

brilliant white  
ca. RAL 9010

100% color accuracy cannot be guaranteed due to printing techniques.

### COELAN® Antislip Glass Powder

Consists of small glass beads and can be applied as an additional anti-slip effect wherever more secure footing is required.

Usage: as necessary

Unit size: 0,3 kg / 10.6 oz tin

### COELAN® Flexo Primer

Is a bonding agent for colored coatings on elastic substrates, for example rubber dinghies, fenders, sheer or rub rails and boat cushions.

Usage: approx. 50 ml/m<sup>2</sup> - 1.7 fl.oz / 10 sq.ft.

Unit size: 250 ml – 8.5 fl.oz bottle

### COELAN® Flexo Primer LE

Is a bonding agent for transparent coatings on elastic substrates, for example rubber dinghies, fenders, sheer or rub rails and boat cushions.

Usage: approx. 50 ml/m<sup>2</sup> - 1.7 fl.oz / 10 sq.ft.

Unit size: 250 ml – 8.5 fl.oz bottle

### COELAN® Color Paste

Color pastes are used to produce colored coatings. The paste is added to the transparent gloss coating to obtain the desired color from our standard colored scheme or to create costum individual colors.

Usage: One tube of color paste per 375 ml – 12.7 lf.oz COELAN® Boat Coating (2 tubes for 750 ml – 25.4 fl.oz; 8 tubes for 3 L)

Unit size: 37 ml – 1.25 fl.oz. tube

Besides our high quality products we conveniently offer you comprehensive customer service: A wide range of trained consultants and our technical and sales staff will be pleased to help you.

Our partners and staff are regularly trained in our own training centre. COELAN® manufacturing facilities contain a fully staffed Research and Development department, where our products are regularly tested and advanced.

The COELAN® business process and products are certified under DIN EN ISO 9001:2008 to ensure the high quality of its products!



Interested in finding out more?

Then call us!

Your COELAN®-Team

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