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GUIDELINE FOR BOAT COATINGS

The long-term solution for wood, GRP, steel, aluminium and rubber boats

- *highly elastic*
- *vapour-permeable*
- *UV resistant*
- *one component*
- *easy to apply*
- *impact resistant*
- *slip resistant*
- *highly abrasion resistant*

INTRO



*„Long lasting
protection“*

The aim of our products is the long-term protection of boats and thereby to maintain the boats' value. COELAN® products have been successfully used for more than 15 years in wet situations. The coating guarantees a durable problem solution for all kinds of wood.

This guide should inform all boat owners about the multiple application possibilities with COELAN® Boat Coating. Informative and detailed solutions are presented so that even a layman can put it into practice.

Enjoy your boat! We wish you enduring pleasure with your boat thanks to COELAN® Boat Coating!

Your COELAN®-Team

TIPS & TRICKS

- Good working results require good tools.
- We recommend to use foam roller and, for smaller areas, high quality brushes.
- Always sand wood in the direction of the grain.
- Always use sanding paper grain size 80, for sanding wood, plastic and steel. An electric sander is best suited. For joints with sharp edges, you will find a surface miller quite helpful. Sprayed coatings, without (coloured) mist, can be treated with the HVLP-turbine in a low pressure spraying process. Tools like paint spray mask, safety gloves, turbo-hit hot air gun, scraper and for sanding corners the fine universal sander for corners are very helpful tools.
- Application temperature 5°C –max. 30°C.
- Do not apply COELAN® Boat Coating in direct sunlight.
- Use only COELAN® Thinner for diluting the material or cleaning tools and dirt.
- The COELAN® Boat Coating system is a moisture hardening product, therefore containers should be used up after opening.
- If you can foresee that the material will not totally be used, take as much COELAN® Boat Coating as you need and then exchange the remaining air column 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.
- Often opened pails contain cured material. Filter if necessary.

CARE

- Use clear (salt-)water to clean the coating.
- Water soluble cleaner without alcohol (low-level pH-value up to 7) can also be used for cleaning.

REFURBISHMENT & REPAIR

Damage causing leakage should be repaired immediately. Sand down the damaged parts diagonally with sandpaper (grain 80). The depression should be filled layer by layer with COELAN® Boat Coating.

COELAN® PRODUCTS

COELAN® Boat Coating is a one-component, polyurethane-based liquid polymer, suitable for application to virtually any correctly prepared substrate. All information in this guide is based on coatings above the waterline.

SOFTWOOD _____

HARDWOOD _____

TEAK _____

GRP _____

STEEL & ALUMINIUM _____

**RUBBER DINGHIES,
FENDERS & SHEER RAILS** _____

COELAN® SPECIAL COATINGS _____

COELAN® PRODUCTS _____

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RULES & HINTS

WOOD

- The retained humidity in wood should be less than 15%. In the case of older wood it is also necessary to check the retained humidity in the core area.
- Hard wood, hull interiors, superstructures and deck planks need to be vapour sealed internally to avoid steam diffusion from inside to the outside.
- Ensure that there is no water beneath a mounted deck and that no water can penetrate at any time.
- Protruding wood fibres or dirt in transparent coatings can only be sanded after the first or second film has been applied. Otherwise the pigments in the primer will smear.
- In principle do not use any solvents for cleaning.

GENERAL INFORMATION

- No adhesion on silicon and WKT joints.
- Polyethylene and Polypropylenes cannot be coated.
- Do not use any solvent for cleaning.
- Painting intervals within two weeks 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 discolouration of coatings. Discolouration cannot be cleaned. Vegetation can also cause discolouration.
- COELAN® Boat Coating can be removed with a hot-air gun (600°C) and a good scraper or spatula.

MAINTENANCE OF INDUSTRIAL HEALTH AND SAFETY STANDARDS

- The use of liquid polymers requires tidiness and it is very important to follow the COELAN® work and safety instructions according to our Technical Data Sheets (TDS).
- Observe statutory safety regulations and instructions on packaging. Text and symbols draw attention to the most important points to be followed while using our products.
- Use a mask when spray painting, in accordance with the regulations for dangerous material.
- Always wear safety gloves while working with liquid polymers.

PREPARATION FOR SURFACE REFURBISHMENT

- Clean the surface with soap and rinse off with clear water to degrease.
- Let the surface dry, then sand with sanding paper grain-size 80.
- 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/m². To accentuate the tone freshness for transparent wood coatings it is possible to apply a film of the corresponding COELAN® Boat Primer (available in yellow, red or brown).

COATING SYSTEM:

COELAN® Boat Coating should be applied evenly in several coats (around 5-6 coatings). Usage is about 1000 ml/m² for a finished surface.

Horizontal surfaces: The various coats can be applied evenly and generously—with overlaps—with a 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. After a drying time of more than two weeks between different coats the surface should be sanded to secure bonding.

IMPORTANT:

Specified product usage rates must be maintained. Good results can be achieved by using the spray coating method. Depending on the spray method, the viscosity needs to be adjusted with COELAN® Thinner (e.g. by low pressure 0,7 mm-injector = 40-35 DIN sec. DIN-4 measuring cup). Please bear in mind that more material is needed when using the spray coating method. To achieve the different colours according to the colour scheme or individual colours please use the complete tube contents. Mix the colour 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 per 375 ml COELAN® Boat Coating (2 tubes per 750 ml—8 tubes per 3 l)
All colours can be intermixed.



SOFTWOOD

PINE, FIR, LARCH, SPRUCE ETC.

Softwoods are commonly used for masts, booms, spars, top-masts and yards. Also hulls and superstructures are made of softwood.

Softwood surfaces require special protection against fungal attack, destruction by UV-radiation and cracking.

► **PREPARATION OF NEW WOOD**

The surface is to be sanded slightly with sandpaper (grain-size 80) to increase the absorption capacity. Sanding dust must be removed by vacuum cleaner. Please do not use any solvents!

► **PREPARATION FOR RENOVATION**

The surface is to be sanded with an eccentric grinder (grain-size 80) thoroughly down to the sound wood. Sanding dust must be removed with a vacuum cleaner. Please do not use any solvents!

Large cracks should be milled out with sharp edges by means of a surface miller, filled in with the same kind of wood and glued with marine glue or epoxy resin. Plane down projecting edges.

► **PREPARATION IN THE CASE OF OLD PAINT LAYERS**

Sound existing paint layers can be coated without priming, after checking carefully and sanding down (grain-size 80). Please check for compatibility.

PRIMER

After preparing the substrate, the wooden surface must be primed

with two coats of COELAN® Boat Primer, available in yellow, red or brown, depending on the type and appearance of wood required. The priming process should be repeated several times until the pores are filled. The relevant drying times must be observed. End grain wood must be primed several times with COELAN® Boat Coating.

COATING

The prepared surfaces can now be coated according to the application instruction on page 16 with approx. 1 l of COELAN® Boat Coating.



HARDWOOD

*OAK, TEAK, MAHOGANY,
RED IRONWOOD ETC.*



HARDWOOD

Tropical and native hardwoods are used extensively in the boat building industry for building components. Hulls, superstructures and deck coverings are constructed of mahogany, teak, oak and red ironwood. With these kinds of wood, the surface destruction due to UV-radiation or fungal attack is less than that observed in softwoods. Unprotected hardwoods tend to become grey or bleach out. COELAN® Boat Coating, with its specially developed features, is the most suitable product to maintain the high quality of these exotic woods and actively protects against decomposition.

► PREPARATION OF NEW WOOD

With woods such as teak and ironwood, which contain oil and latex, the

surface should be brushed down first with a short brush in the direction of the fibres. Afterwards the surface should be sanded with sandpaper (grain-size 80). Sanding dust must be removed by vacuum cleaner. Please do not use any solvents!

► PREPARATION FOR RENOVATION

The surface should be sanded thoroughly down to the sound wood with an eccentric grinder (grain-size 80). With mahogany, the entire bleached surface should be sanded away until a red shade is reached. Sanding dust must be removed with a vacuum cleaner. Please do not use any solvents!

Large cracks should be milled out with sharp edges by means of a surface miller, filled in with the same kind of wood and glued with marine

glue or epoxy resin. Plane down projecting edges.

PRIMER

After preparation, the wooden surface must be primed with two coats of COELAN® Boat Primer, available in yellow, red or brown, depending on the type and appearance of wood required. The priming process must be repeated several times until the pores are filled. The relevant drying times must be observed. End grain wood must be primed several times with COELAN® Boat Coating.

COATING

The prepared surfaces can now be coated according to the application instruction on page 16 with approx. 1 l of COELAN® Boat Coating.

TEAK DECK

A well-maintained deck is always an eye-catcher on sailing boats and motor yachts. Unfortunately, environmental influences can make beautiful teak wood unattractive, as it becomes dirty and



greyish. This is the main reason why a new teak deck should be protected with COELAN® Boat Coating.

Teak decks require special protection to avoid fungal attack, destruction by UV-radiation and cracking.

► PREPARATION OF NEW WOOD

With woods such as teak and ironwood which contain oil and latex, the surface should be brushed down first with a short brush in the direction of the fibres. Afterwards the surface should be sanded with sandpaper (grain-size 80). Sanding dust must be removed by vacuum cleaner. Please do not use any solvents!

► PREPARATION FOR RENOVATION

Very often a renovation is required due to torn fugues and planks. You will find work easier if you remove all fittings before sanding. It is essential to measure the moisture of the wood and to ascertain whether there is water between deck and planks. Wood moisture also should be measured in the core range. Drill a 8 mm deep hole at the deepest end of the deck and check with a piece of convoluted kitchen paper whether there is water beneath the wood. If so, take one plank off each side of the gangway and wash it out with clear water. Please check and if necessary repair all deck joints and cracks, remove loose jointing compound, and with a sharp object (knife, chisel or scraper) clean the bonding surface of the joint and remove loose material with a vacuum cleaner.

PRIMER

After preparation, the wooden surface must be primed with two coats of COELAN® Boat Primer, available in yellow, red

or brown, depending on the type and appearance of wood required. The priming process must be repeated several times until the pores are filled. The relevant drying times must be observed. End grain wood must be primed several times with COELAN® Boat Coating. Small cracks can be filled with PUR-based joint-compound (please observe the relevant drying times).

COATING

The prepared surfaces can now be coated according to the application instruction on page 16 with approx. 1 l of COELAN® Boat Coating.

GRP

Synthetic material surfaces are commonly used. Indications are crumbling surfaces and hair-line cracking in the gel coat. If you notice these symptoms, a renovation is urgently required.

PREPARATION

GRP surfaces should 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 should be filled with epoxy resin filler and sanded down again after drying. Smaller hairline cracks can be covered with the coating.

COATING

In order to achieve different colour shades according to our scheme (or individual colours), it is necessary to add the complete contents of the colour paste tube to the can containing transparent COELAN® Boat Coating. Take a paddle and mix the colour paste carefully until it is free of bubbles and streaks to achieve a homogeneous mixture. The mixed material should be applied immediately.

USAGE

One tube per 375 ml COELAN® Boat Coating (2 tubes for 750 ml; 8 tubes for 3 l). All colours can be intermixed.



STEEL & ALUMINIUM BOATS

COELAN® Boat Coating can also be used for steel and aluminium boats. However, an intact corrosion protection or a firm old coating is required.

► 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 proceed 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 anti-corrosive primer. Allow the primer to dry and fill

any larger irregularities with epoxy resin filler.

► PREPARATION FOR ALUMINIUM BOATS

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

USAGE

One tube per 375 ml COELAN® Boat Coating (2 tubes for 750 ml; 8 tubes for 3 l). All colours can be inter-mixed.

COATING

In order to achieve different colour shades according to our scheme (or individual colours), it is necessary to add the complete contents of the colour paste tube to the can containing transparent COELAN® Boat Coating. Take a paddle and mix the colour paste carefully until it is free of bubbles and streaks to achieve a homogeneous mixture. The mixed material should be applied immediately.



RUBBER DINGHIES, FENDERS & SHEER RAILS

Rubber dinghies are a very common feature on board. The relatively thin skin of coated tissue or rubber quickly becomes brittle due to UV-radiation, sand and mechanical abrasion on seats and hull. Also most fenders are not resistant to oil, fuel or solvents. The surface soon becomes sticky and dirty. 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

Apply a wafer-thin coat of around 50-70 ml/m² Flexo Primer with a soft brush or rub it on with a lint-free cloth. After around 30 min., the primer will be sufficiently dry. Please do not prime more than you can coat within half an hour! Then apply COELAN® Boat Coating.

COATING

The prepared surfaces can now be coated according to the application instruction on page 16 with approx. 1 l of COELAN® Boat Coating.

In order to achieve different colour shades according to our scheme (or individual

colours), it is necessary to add the complete contents of the colour paste tube to the can containing transparent COELAN® Boat Coating. Take a paddle and mix the colour paste carefully until it is free of bubbles and streaks to achieve a homogeneous mixture. The mixed material should be applied immediately.

USAGE

Depending on the surface 500-700 ml/m² COELAN® Boat Coating.



**RUBBER DINGHIES,
FENDERS & SHEER
RAILS**



COESHIP® DECK**THE MULTICOLOURED BOAT COATING**

THE IDEAL BOAT COATING FOR STEEL, ALUMINIUM, GRP AND WOODEN BOATS

COESHIP® Deck Coating is the ideal combination of transparent gloss COELAN® Boat Coating and a mixture of coloured flakes for the creation of multicoloured and decorative deck coatings.

PREPARATION

Steel and aluminium boats (see page 8)

GRP boats (see page 7)

Wooden boats (see page 4-6)

To ensure a neat application, mask around the area to be coated with self-adhesive tape. The tape should be coated over and then removed immediately, while the coating is still wet.

red substrate by simply pouring it out of the can and spreading it with our special spatula in all directions until the substrate is no longer visible. This application method ensures at the same time a minimum film thickness of 1,7–2 mm.

PLEASE NOTE

The tape needs to be removed immediately after coating the substrate.

COATING

Please mix 750 ml COELAN® Boat Coating with 500 g coloured flakes in a separate pail (approx. 2 kg coloured flakes with 3 l of COELAN® Boat Coating). Stir the mixture carefully with a stick before application. If silver- or gold-glitter is requested, the glimmer can be added directly into the pail and stirred up evenly. The material can now be applied onto the prepa-

USAGE

Depending on the surface, a minimum of 1,6 l/m² (film thickness approx. 1,7 mm) is needed. We recommend for larger areas to pre-disperse the material with our special spatula (aluminium 180 mm). The coloured chips are available in 1 kg pails.



COELAN® LAMELLAR DECK**THE SOFT BOAT COATING**

THE SOFT BOAT COATING BASED ON EPDM-MICRO GRANULES AND COELAN® BOAT COATING.

PREPARATION

Steel and aluminium boats (see page 8)

GRP boats (see page 7)

Wooden boats (see page 4-6)

To ensure a neat appli-



cation, mask around the area to be coated with self-adhesive tape. The tape should be coated over and then removed immediately, while the coating is still wet.

COATING

Stir the EPDM-micro granules into the transparent COELAN® Boat Coating in a percentage by weight of 43%. The self-levelling mixture then can be applied to the prepared surface using a

special spatula.

Remove the masking tape immediately and blind the entire surface with EPDM-micro granules using a common fine kitchen colander. The following day the surplus granules can be vacuumed away and the new deck coating is finished.

PLEASE NOTE

The surplus granules can be used again. The flow and levelling properties are dependent on air humidity, air temperature and on the temperature of the substrate to be coated. It might therefore be necessary to dilute mixed material by adding COELAN® Boat Coating or to thicken it by adding EPDM-micro granules.

USAGE

Approx. 1,3 l/m² COELAN® Boat Coating transparent

Approx. 1600 g/m² EPDM micro granules

The EPDM-granules are available in working units for the 750 ml tin COELAN® Boat Coating transparent and 3 l bucket sufficient for an area of approx. 0,6 or 2,4 m².

(We recommend that you contact an expert for the application of designer decks.)



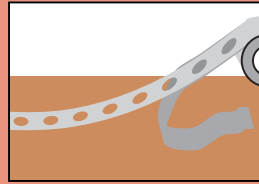
„ANTISLIP“ FOR ADDITIONAL SAFETY IN WORKING AREAS

COELAN® Boat Coating is inherently slip-resistant. However, for added safety in working areas such as around the mast and near the foresail and windlass, we recommend the addition of "ANTISLIP" glass beads.

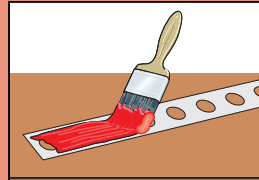
PREPARATION

Antislip surfaces are always laid on a finished surface. Therefore stick the COELAN® Antislip Punched Tape (or any other suitable tape) on the stipulated area. The application is also possible on old paint layers, steel and aluminium boats or GRP surfaces. Sand down the surface of the holes with sandpaper (grain-80). We advise to tape off smaller components.

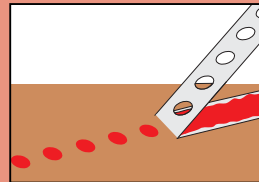
apply a coat of 250 ml/m² COELAN® Boat Coating (please see page 16). The coating can either be transparent or coloured. Before scattering in the glass beads, please carefully remove the punched tape. The glass beads should now be sprinkled over the coat while it is still wet. For this purpose use a can like a saltcellar. After drying for approx. 12 hours, remove the surplus of loose glass beads. These can be used again.



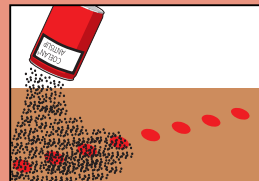
Stick the COELAN® Antislip Punched Tape on the cleaned substrate.



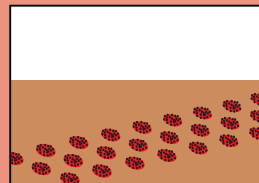
Apply the COELAN® coating richly by means of a brush.



Then immediately remove the Punched Tape.



Scatter COELAN® Antislip and let it dry (over night)....



...and then remove the surplus of loose Antislip. By sticking the Antislip Punched Tape side by side for several times, you can create interesting designs in various sizes and forms.

COATING

The taped off surfaces must be cleaned with a vacuum cleaner. Then



PRODUCT DESCRIPTION

▶ COELAN® BOAT PRIMER

(yellow pigmented)

...is an elastic yellow pigmented primer for soft- and hardwoods (teak, pine, fore, fir, larch, spruce). The primer is needed for untreated wooden surfaces only.

Usage: about 200 ml/m² per layer.

▶ COELAN® BOAT PRIMER

(red pigmented)

...is an elastic red pigmented primer for soft- and hardwoods. The primer is above all needed for wooden surfaces sensitive to light, for example mahogany.

Usage: about 200 ml/m² per layer.

▶ COELAN® BOAT PRIMER

(brown pigmented)

...is an elastic brown pigmented primer for classic boats, for example made of oak.

Usage: About 200 ml/m² per layer.

A primer is needed for untreated wooden surfaces only, but can also be used for old and bleached COELAN® paint layers before the new coating is applied.

▶ COELAN® BOAT COATING

one-component

...is a high quality product for heavy-duty use on board. High elasticity, resistance to UV rays and abrasion, and permeability to water vapour are the main features of this product. (Available in transparent gloss and 12 colour shades to intermix with Colour Paste. See colour scheme.)

Usage: 1,000 ml/m²

▶ COELAN® COLOUR PASTE

Colour pastes are used to produce coloured coatings. The paste is added to the transparent coating to gain the colours from our colour scheme or individual colours.

Usage: 1 tube per 375 ml

2 tubes for 750 ml; 8 tubes for 3 l).

▶ COELAN® BOAT COATING

Silk-Finish

Applied as a finishing coat on a gloss boat coating when a silk-finish surface is desired. Due to the increased danger of skidding, the silk-finish material should not be applied on walking areas of decks.

Also may not be pigmented with our Coloured Paste!

Usage: 200 ml/m²

▶ "ANTISLIP"

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

Usage: 100-200 g/m²

▶ FLEXP PRIMER

(special primer for plastics)

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

Usage: approx. 50-70 ml/m²

▶ FLEXP PRIMER-LE

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

Usage: approx. 50 – 70 ml/m²

COELAN® Boat Coating should be used for coatings above the waterline only!

COELAN® - your efficient partner for many applications:

- ▶ **TILE REFURBISHMENT** (*in kitchens, bathrooms, WCs*)
- ▶ **BALCONY AND PATIO REFURBISHMENT** (*decorative and waterproofing refurbishment systems*)
- ▶ **ROOF REFURBISHMENT** (*for both flat and pitched roofs*)
- ▶ **MARINE APPLICATIONS AND WOOD PROTECTION** (*for boats, yachts, timber facades, etc.*)
- ▶ **CUSTOMER-SPECIFIC PROBLEM SOLUTIONS**

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Your local specialist:

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