



GUIDE TO BOAT COATING

Using the **COELAN®** BOAT COATING SYSTEM

- TEXT ONLY -

Version 7.0

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CONTENTS

INTRODUCTION.....	3
BOAT COATING PRODUCTS.....	4
PRODUCT DESCRIPTIONS	5
COATING NEW WOOD – SOFTWOOD	7
RENOVATION OF OLD SOFTWOOD SURFACES.....	9
COATING NEW WOOD – HARDWOOD.....	11
RENOVATION OF OLD HARDWOOD SURFACES	13
COATING A NEW TEAK DECK	15
RENOVATION OF OLD TEAK DECKS.....	17
“ANTISLIP” FOR A SAFE GRIP WHERE YOU NEED IT.....	19
FIBERGLASS - REINFORCED PLASTIC – GRP	20
STEEL BOATS AND ALUMINUM BOATS	22
INFLATABLE DINGHIES – FENDERS - AND SHEER RAILS.....	24
COESHIP® DECK	26
COELAN® LAMELLAR DECK.....	27
COELAN® BOAT COATING	28
PRACTICAL TOOLS.....	30
COELAN® BOAT COATING	31
Please refer also to our.....	32
-FAQS	32
-STEP BY STEP APPLICATION INSTRUCTIONS	32
Disclaimer:	32
COELAN® Marine Products.....	32

INTRODUCTION

This guide is written for the coating specialist or yacht owner using the COELAN® Boat Coating family of products.

COELAN® coatings are highly refined single part polyurethane products and as such it is important for the new user to thoroughly read and understand the following detailed application instructions. In this way, consistent success and long product life will be achieved.

COELAN® Boat Coating products can be used on wood, fiberglass, steel or aluminum hull and deck surfaces. These surfaces can be found on large commercial ships or private luxury yachts and in situations where only the very best marine products will suffice. Spars, swim steps, hand holds, deck railings and many marine related furnishings and accessories can also be enhanced and protected by the use of COELAN® Boat Coating products. In addition; inflatable dinghies, boating fenders and mooring buoys are excellent candidates for COELAN® Boat Coating applications.

Protection of asset value and long intervals between renovations are two major reasons for the success of our products.

You will find that COELAN® Boat Coating Products will give outstanding results.

BOAT COATING PRODUCTS

Cans are available in the following sizes:

- A. BOAT COATING PRIMER – transparent (yellow tint), for wooden substrates
250 ml / 1.0 liter / 5.0 liters
- B. BOAT COATING PRIMER – red tint, for light sensitive wood.
250 ml / 1.0 liter
- C. COELAN® BOAT COATING – transparent, gloss finish
375 ml / 750 ml / 3.0 liters
- D. COELAN® COLOR PASTE, to color the transparent boat coating
37 ml tube. 12 standard colors are available.
- E. COELAN® BOAT COATING – transparent or silk (matte) finish
375 ml / 750 ml
- F. COESHIP® DECK, a multi-colored textured finish boat coating packaged in one pail.
Consisting of transparent boat coating and a multi-colored flake additive. 2.0 liters
- G. COELAN® LAMELLAR DECK, including an appropriate quantity of EPDM-Micro
granules packaged in one mixing barrel. Combine with either; one 750 ml tin, or; one
3 liter pail, of the transparent COELAN® BOAT COATING, gloss finish.
- H. ANTISLIP FINISH, 0.3 kg or 1.5 kg. glass beads and ANTISLIP PUNCHED TAPE
(10 m) for the easy application of the anti-slip material.
- I. FLEXO-PRIMER, special primer for plastics, inflatable dinghies etc...
250 ml / 1.0 liter
- J. COELAN® THINNER
250 ml / 1.0 liter / 5.0 liters
- K. RETARDATION AGENT, for increasing curing times in hot and humid conditions.
1.0 liter.

Please note container (can) size conversion to US measurement.

37 milliliters = 1.25 fluid ounces
200 milliliters = 6.76 fluid ounces
250 milliliters = 8.45 fluid ounces
375 milliliters = 12.68 fluid ounces
750 milliliters = 25.36 fluid ounces / 0.79 quarts
1 liter = 33.81 fluid ounces / 1.06 quarts
2 liters = 2.11 quarts
3 liters = 3.17 quarts / 0.79 gallons
5 liters = 1.32 gallons
0.3 kilograms = 10.58 ounces by weight 1.5 kilograms = 3.31 pounds

1 square meter = 10.76 square feet
1 millimeter = 0.039 inches
1 meter = 39.37 inches
10 meters = 32.81 feet

PRODUCT DESCRIPTIONS

COELAN® transparent boat coating primer is an elastic yellow colored primer for soft and hardwoods (teak, oak, spruce) and is required for bare wood surfaces. Consumption: approx. 200 ml/m² (6.76 fl. ounces / 10.76 square feet)

COELAN® colored boat coating primer is an elastic red colored primer for soft and hardwoods (mahogany) and is required for bare wood surfaces **sensitive to light**. Consumption: approx. 200 ml/m² (6.76 fl. ounces / 10.76 square feet)

COELAN® single-component boat coating is a top quality, transparent, liquid polyurethane product. Among the coating characteristics essential for long lasting service are; **high elasticity, resistance to UV rays and abrasion and permeability to water vapor**. The coating is available in transparent gloss or matte (silk) finish and can be mixed with 12 color pigment additives to create a colored finish. (See color card.) Consumption: 1,000 ml/m². (1.06 quarts / 10.76 square feet)

COELAN® color pastes are used to create an opaque colored finish. The paste is added to the transparent coating. See the color chart. Pastes can be combined to create custom colors.

- 1 tube per 375 ml can (12.68 fluid ounces)
- 2 tubes per 750 ml can (0.79 quarts)
- 8 tubes per 3000 ml pail (3.17 quarts)

COELAN® boat coating in silk finish is applied only in a final layer as a finish coat on top of the gloss boat coating and when a silk-finish (matte) surface is desired. Consumption: 200 ml/m². (6.76 fl. ounces / 10.76 square feet)

COESHIP® DECK is a coating application using a suitable quantity of transparent gloss boat coating and a multi-colored flake additive. The result is a long wearing and slightly rough, textured surface finish. (See color chart.)

COELAN® LAMELLAR DECK process uses a mixed quantity of EPDM-Micro granules and corresponding amounts of transparent gloss COELAN®-BOAT COATING to create a pliable, gray colored, textured deck finish.

“ANTISLIP” finish is produced by spreading small glass beads on top of the finished coating surface and is applicable whenever a solid footing is desired. Consumption: 100-200 g/m². (3.53 – 7.05 ounces / 10.76 square feet)

“ANTISLIP” tape is an adhesive backed tape with pre-punched 1.00 inch diameter openings. Use of this tape will create repetitive, small circular areas of anti-slip surface.

FLEXO-Primer (special primer for plastics) is a bonding agent **for colored coatings** applied to inflatable dinghies, fenders, rub rails and boat cushions. Consumption: approx. 50-70 ml/m². (1.69 – 2.37 fl. ounces / 10.76 square feet)

RETARDATION Agent is a liquid additive to be combined with the COELAN® coating when high ambient air temperature (> 86°F / +30 °C.) and/or humidity (> 85%) are present. This agent thins the coating and thus slows the curing time. Use of the Retardation Agent will require an increase in the amount of coats applied (approx. 8 to 10) to ensure final coating thickness of 1.00 mm / 0.039 in.

THIXOTROPIC Agent is a powder additive to be combined with the COELAN® coating when applying the coating to a vertical surface and accelerated curing time is desired.

COELAN® can also supply several kinds of **tape** and **spreading tools** to make product application easier and produce an optimum result.

COELAN® boat coating is to be used only **above the waterline!**

COATING NEW WOOD – SOFTWOOD (Pine, Fir, Larch, Spruce, etc.)

Softwoods are normally used in boat building for masts, booms, spars, top-masts and yards. However there are also hulls and super-structures that are made of softwood.

Softwood surfaces require special protection against fungal attack, destruction by UV radiation and formation of cracks.

PREPARATION (FOR NEW WOOD):

The surface of the new wood should be sanded down with sandpaper (**#80 grain**) in order to increase surface absorption capacity. Sand with the grain, not across it.

Sanding dust should be thoroughly removed with a **vacuum cleaner**. Please do not use any solvents. Refer to our Tips and Tricks information sheet.

Apply a **coat of COELAN® boat coating primer-transparent**; do not forget to prime small cracks. Larger cracks (> 3.0 mm / 0.12 inches) must be filled. The priming process has to be repeated several times where very absorbent substrates are present. The corresponding drying times have to be respected.

Brush: Good quality, large ring brush or wide flat brush. Remove all loose bristles.

Fill all cracks with Polyurethane based filler or flexible wood putty and smooth down the surface.

HOW TO APPLY THE COATING:

The surface is now ready for the first coat of **COELAN® boat coating** – transparent or colored.

COELAN® boat coating should be applied evenly in several coats (approx. 5-6 coats) and achieving a finished minimum thickness of 1 millimeter or 0.039 inches. Consumption will be **1000 ml per square meter** (1.06 US qt. per 10.8 sq. ft.) for a finished surface. With **horizontal** surfaces the various coats can be applied evenly and generously – with overlaps – with a brush or foam roller (which must be resistant to solvents). With **vertical** surfaces, and depending on atmospheric humidity, thin the coating between 10% and 30% with our “**COELAN® THINNER**”. This will help to prevent the coating from running. The number of individual coats should then be increased correspondingly (8-10 coats). Be sure to achieve the finished minimum thickness of 1 millimeter or 0.039 inches. Depending on weather, ambient air temperature and relative atmospheric humidity, drying time for each of the coats will be between 2 and 6 hours. Sanding in between coats for bonding is required only when intervals between coats are more than 14 days. Sanding should be done with **#80 grain**. It is **important** that the directions regarding coating quantities be followed. Spray application gives particularly good results. Depending on the spraying process used, viscosity should be suitably adjusted with our “**COELAN® THINNER**” (e.g. at low pressure, 0.7 mm-nozzle, set at 40-35 DIN sec.-DIN 4 measuring beaker). Please pay attention to the additional consumption rates because of spraying loss.

ATTENTION:

When a can has been opened, it is recommended it be used up the same day to prevent possible hardening inside the can due to effects of moisture in the air. (See also our Tips).

Coating will not bond with silicone based joint sealants (such as Silicone, WKT, etc)

Residual moisture in the wood should be in the range of 12 to 15%. In the case of old wood, moisture should also be measured in the core or plank center using a hand held battery powered, dual probe moisture meter.

Use of Retardation Agent may be required when high ambient air temperature (> 86°F / +30 °C.) and/or humidity (> 85%) are present.

It is recommended the finished surface not be placed in service until 7 days after the application to ensure full curing of the coating.

COELAN® boat coating should be used only **above the waterline.**

Please also refer to our Tips.

RENOVATION OF OLD SOFTWOOD SURFACES (Pine, Fir, Larch, Spruce, etc.)

Softwoods are especially prone to rapid graying and cracking if their surfaces are not adequately protected.

With an electric sander (**#80 grain**) sand the surface thoroughly down to the sound wood. Sand with the grain. Remove sanding dust with a vacuum cleaner. Please do not use any solvents!

Large cracks (in excess of 3 mm / 0.12 inches) should be milled out to a sharp edge by means of a **surface miller**, then filled in with the same kind of wood and **glued with marine glue or epoxy resin**. Plane off projecting edges.

COELAN® boat coating primer-transparent can now be applied to the wood surface prepared in this manner. Do not forget to fill inside the smaller cracks. When the primer has dried, these smaller cracks should be filled in with polyurethane based filler and smoothed flat. The priming process has to be repeated several times where very absorbent substrates are present. The corresponding drying times have to be respected. Solid wood, plank ends, and sides, as well as the underside of deck planks should be sealed vapor tight to avoid water vapor penetration due to effects of natural convection.

HOW TO APPLY THE COATING:

The surface is now ready for the first coat of COELAN® boat coating – transparent or colored.

COELAN® boat coating should be applied evenly in several coats (approx. 5-6 coats) and achieving a finished minimum thickness of 1 millimeter or 0.039 inches. Consumption will be **1000 ml per square meter** (1.06 US qt. per 10.8 sq. ft.) for a finished surface. With **horizontal** surfaces the various coats can be applied evenly and generously – with overlaps – with a brush or foam roller (which must be resistant to solvents). With **vertical** surfaces, to prevent the coating from running, it may be necessary to thin the coating between 10% and 30% with our “**COELAN® THINNER**”. The number of individual coats should then be increased correspondingly (8-10 coats). Be sure to achieve the finished minimum thickness of 1 millimeter or 0.039 inches. Depending on weather, temperature and relative atmospheric humidity, drying time for each of the coats will be between 2 and 6 hours. Sanding in between coats for bonding is required only when intervals between coats are more than 14 days. Sanding should be done with **#80 grain**. It is **important** that the directions regarding coating required coating quantities be followed. Spray application gives particularly good results. Depending on the spraying process used, viscosity should be suitably adjusted with our “**COELAN® THINNER**” (e.g. at low pressure, 0.7 mm-nozzle, set at 40-35 DIN sec.-DIN 4 measuring beaker). Please pay attention to the additional consumption rates due to spraying loss.

ATTENTION: Coating will not bond with silicone based joint sealants (such as Silicone, WKT, etc)

Residual moisture in the wood should be in the range of 12 to 15%. In the case of old wood, moisture should also be measured in the core or

plank center using a hand held battery powered, dual probe moisture meter.

When a can has been opened, it is recommended it be used up the same day to prevent possible hardening inside the can due to effects of moisture in the air.

Use of Retardation Agent may be required when high ambient air temperature (> 86°F / +30 °C.) and/or humidity (> 85%) are present.

It is recommended the finished surface not be placed in service until 7 days after the application to ensure full curing of the coating.

COELAN[®] boat coating should be used only **above the waterline**.

An intermediate sanding to remove bulging wood fibers or dust may only be effected after having applied the second layer of coating. Do not sand the applied primer as the pigments of the primer will be removed.

Remember that **COELAN[®] boat coating** bonds well on nearly every surface including your skin. You should therefore wear **protective gloves**.

Please also refer to our Tips.

COATING NEW WOOD – HARDWOOD (Oak, teak, mahogany, red ironwood, etc.)

Tropical and native hardwoods are used in boat building for parts subjected to hard wear. Hulls, superstructures, railings and deck coverings are constructed in mahogany, teak, oak and red ironwood. With these kinds of wood, there is less surface destruction due to UV radiation or fungal attack, and destruction is less severe than that observed in soft woods.

PREPARATION (FOR NEW WOOD):

In the case of hard wood, such as teak and ironwoods, which contain oil and tree sap, the surface should first be brushed down with a stiff bristle brush in the direction of the fibers or grain to obtain an even surface. Afterwards, as with all the other kinds of wood, the surface should be sanded along the grain with **#80 grain** sandpaper.

Sanding dust should be thoroughly removed with a vacuum cleaner. Please do not use any solvents!

COELAN® transparent or colored boat coating primer should now be applied to the wood surface prepared in this manner (with red colored primer for mahogany). When the primer has dried, smaller cracks should be filled in with Polyurethane based filler and smoothed flat. The priming process has to be repeated several times where very absorbent substrates are present. The corresponding drying times have to be respected. Solid wood, plank ends, and sides, as well as the underside of deck planks should be sealed vapor tight to avoid water vapor penetration due to effects of natural convection.

HOW TO APPLY THE COATING:

The surface is now ready for the first coat of **COELAN® boat coating** – transparent or colored.

COELAN® boat coating should be applied evenly in several coats (approx. 5-6 coats) and achieving a finished minimum thickness of 1 millimeter or 0.039 inches. Consumption will be **1000 ml per square meter** (1.06 US qt. per 10.8 sq. ft.) for a finished surface. With **horizontal** surfaces the various coats can be applied evenly and generously – with overlaps – with a brush or foam roller (which must be resistant to solvents). With **vertical** surfaces, to prevent the coating from running, it may be necessary to thin the coating between 10% and 30% with our “**COELAN® -THINNER**”. The number of individual coats should then be increased correspondingly (8-10 coats). Be sure to achieve the finished minimum thickness of 1 millimeter or 0.039 inches. Depending on weather, temperature and relative atmospheric humidity, drying time for each of the coats will be between 2 and 6 hours. Sanding in between coats for bonding is required only when intervals between coats are more than 14 days. Sanding should be done with **#80 grain**. It is **important** that the directions regarding coating quantities be followed. Spray application gives particularly good results. Depending on the spraying process used, viscosity should be suitably adjusted with our “**COELAN® THINNER**” (e.g. at low pressure, 0.7 mm-nozzle, set at 40-35 DIN sec.-DIN 4 measuring beaker). Please pay attention to the additional consumption rates due to spraying loss.

ATTENTION:

Coating will not bond with silicone based joint sealants (such as Silicone, WKT., etc).

When a can has been opened, it is recommended it be used up the same day to prevent possible hardening inside the can due to effects of moisture in the air.

Residual moisture in the wood should be in the range of 12 to 15%. In the case of old wood, moisture should also be measured in the core or plank center using a hand held battery powered, dual probe moisture meter.

Use of Retardation Agent may be required when high ambient air temperature (> 86°F / +30 °C.) and/or humidity (> 85%) are present.

It is recommended the finished surface not be placed in service until 7 days after the application to ensure full curing of the coating.

COELAN® boat coating should be used only **above the waterline**.

An intermediate sanding to remove bulging wood fibers or dust may only be effected after having applied the second layer of coating. Do not sand the applied primer as the pigments of the primer will be removed.

Please refer to our Tips.

RENOVATION OF OLD HARDWOOD SURFACES (Oak, Teak, Mahogany, Red Ironwood, etc.)

Unprotected hardwood surfaces are prone to graying and fading. The lignin (cellulose bonding agent) is photo chemically converted by UV radiation and spread by vapor diffusion. However if you wish to preserve the beautiful surface of high-grade wood and to halt further decomposition, **COELAN® boat coating** is the right answer.

Sand the surface thoroughly down to sound wood with an electric sander and **#80 grain** paper. Gently sand with the grain. In the case of mahogany the entire bleached surface should be sanded away until the natural red shade is reached. Thoroughly remove sanding dust with a vacuum cleaner. Please do not use any solvents.

Large cracks (in excess of 3 mm / 0.12 inches) should be milled out to sharp edges by means of a surface miller, filled in with the same kind of wood and glued with marine glue. Projecting edges should be planed down.

COELAN® transparent or colored boat primer should be applied to the wood surface prepared in this manner (with colored primer for mahogany). Do not forget to do this inside the smaller cracks. The priming process has to be repeated several times where very absorbent substrates are present. The corresponding drying times have to be respected.

Solid wood, plank ends, and sides, as well as the underside of deck planks should be sealed vapor tight to avoid water vapor penetration due to effects of natural convection.

HOW TO APPLY THE COATING:

The surface is now ready for the first coat of **COELAN® boat coating** – transparent or colored.

COELAN® boat coating should be applied evenly in several coats (approx. 5-6 coats) and achieving a finished minimum thickness of 1 millimeter or 0.039 inches. Consumption will be **1000 ml per square meter** (1.06 US qt. per 10.8 sq. ft.) for a finished surface. With **horizontal** surfaces the various coats can be applied evenly and generously – with overlaps – with a brush or foam roller (which must be resistant to solvents). With **vertical** surfaces, to prevent the coating from running, it may be necessary to thin the coating between 10% and 30% with our “**COELAN® THINNER**”. The number of individual coats should then be increased correspondingly (8-10 coats). Be sure to achieve the finished minimum thickness of 1 millimeter or 0.039 inches. Depending on weather, temperature and relative atmospheric humidity, drying time for each of the coats will be between 2 and 6 hours. Sanding in between coats for bonding is required only when intervals between coats are more than 14 days. Sanding should be done with **#80 grain**. It is **important** that the directions regarding coating quantities be followed. Spray application gives particularly good results. Depending on the spraying process used, viscosity should be suitably adjusted with our “**COELAN® THINNER**” (e.g. at low pressure, 0.7 mm-nozzle, set at 40-35 DIN sec.-DIN 4 measuring beaker). Please pay attention to the additional consumption rates due to spraying loss.

ATTENTION:

When a can has been opened, it is recommended it be used the same day in order to prevent undesired hardening inside the can due to the effects of moisture in the air.

Coating will not bond with silicone based joint sealants (such as Silicon, WKT etc).

Residual moisture in the wood should be in the range of 12-15%. In the case of old wood, moisture should also be measured in the core or plank center using a hand held battery powered, dual probe moisture meter.

Use of Retardation Agent may be required when high ambient air temperature (> 86°F / +30 °C.) and/or humidity (> 85%) are present.

It is recommended the finished surface not be placed in service until 7 days after the application to ensure full curing of the coating.

COELAN® boat coating should be used only **above the waterline.**

An intermediate sanding to remove bulging wood fibers or dust may only be effected after having applied the second layer of coating. As the pigments of the primer will otherwise be wiped out. Do not sand the applied primer as the pigments of the primer will be removed.

Please refer to our Tips.

COATING A NEW TEAK DECK

A well-maintained deck is always an eye catching feature on boats, yachts or larger vessels. Unfortunately effects of environmental conditions can make beautiful teak wood unattractive, as it becomes dirty and gray. That is why a new teak deck should be protected with **COELAN® boat coating** immediately after it is laid.

HOW TO APPLY THE COATING:

Using a vacuum cleaner, completely and thoroughly remove all dust and debris from the deck surface. Please do not use any solvents!

Apply one coat of 250 ml/m² (8.45 fl. ounces per 10.8 sq. ft.) **COELAN® transparent boat coating primer** to the teak deck. The priming process has to be repeated several times where very absorbing substrates are present. The corresponding drying times have to be observed.

COELAN® boat coating should be applied evenly in several coats (approx. 5-6 coats) and achieving a finished minimum thickness of 1 millimeter or 0.039 inches. Consumption will be **1000 ml per square meter** (1.06 US qt. per 10.8 sq. ft.) for a finished surface. With **horizontal** surfaces the various coats can be applied evenly and generously – with overlaps – with a brush or foam roller (which must be resistant to solvents). With **vertical** surfaces, to prevent the coating from running, it may be necessary to thin the coating between 10% and 30% with our “**COELAN® THINNER**”. The number of individual coats should then be increased correspondingly (8-10 coats). Be sure to achieve the finished minimum thickness of 1 millimeter or 0.039 inches. Depending on weather, temperature and relative atmospheric humidity, drying time for each of the coats will be between 2 and 6 hours. Sanding in between coats for bonding is required only when intervals between coats are more than 14 days. Sanding should be done with **#80 grain**. It is **important** that the directions regarding coating quantities be followed. Spray application gives particularly good results. Depending on the spraying process used, viscosity should be suitably adjusted with our “**COELAN® THINNER**” (e.g. at low pressure, 0.7 mm-nozzle, set at 40-35 DIN sec.-DIN 4 measuring beaker). Please pay attention to the additional consumption rates due to spraying loss.

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Residual moisture in the wood should be in the range of 12 to 15%. In the case of old wood, moisture should also be measured in the core or plank center using a hand held battery powered, dual probe moisture meter.

It is recommended the finished surface not be placed in service until 7 days after the application to ensure full curing of the coating.

Use of Retardation Agent may be required when high ambient air temperature (> 86°F / +30 °C.) and/or humidity (> 85%) are present.

COELAN® boat coating should be used only **above the waterline**.

For the application of anti-slip areas, please refer to the appropriate section of this guideline.

An intermediate sanding to remove bulging wood fibers or dust may only be effected after having applied the second layer of coating. Do not sand the applied primer as the pigments of the primer will be removed.

Please also refer to our Tips.

RENOVATION OF OLD TEAK DECKS

Old teak decks can have many wear or age related problems. These include severe wood decomposition, joint separation, leaking and cracked planking, protruding and missing bungs, etc. Renovation is therefore urgently required

PREPARATION (FOR OLD TEAK DECKS):

You will find work easier if you remove all deck fittings before sanding. It is essential to measure wood moisture content and to ensure there is no water between the deck and planks. Wood moisture should be in the range of 12% - 15%. In the case of old wood, moisture should be also measured in the core or plank center using a hand held battery powered, dual probe moisture meter.

Check and if necessary repair all deck joints and cracks, remove loose sealant or caulking compound, and with a sharp object (knife, chisel or scraper) clean the bonding surface of the joint and thoroughly remove loose material and wood dust with a vacuum cleaner. Verify that the underlying deck support structures and beams are sound.

Apply a preliminary coat of **COELAN® transparent boat coating primer** to the joint and crack edges using a flat brush.

After drying for around 5-6 hours the joint and cracks should be filled up with Polyurethane based filler and smoothed flat. After fully hardening (around 1-2 days) the whole deck can be sanded down to sound wood using **#80 grain** paper.

Thoroughly remove all sanding dust with a vacuum cleaner. Please do not use any solvents!

Solid wood, plank ends, and sides, as well as the underside of deck planks should be sealed vapor tight to avoid water vapor penetration due to effects of natural convection.

HOW TO APPLY THE COATING:

Apply one coat of 250 ml/m² (8.45 fl. ounces per 10.8 sq. ft.) **COELAN® transparent boat coating primer** to the teak deck. The priming process has to be repeated several times where very absorbent substrates are present. The corresponding drying times have to be observed.

COELAN® boat coating should be applied evenly in several coats (approx. 5-6 coats) and achieving a finished minimum thickness of 1 millimeter or 0.039 inches. Consumption will be **1000 ml per square meter** (1.06 US qt. per 10.8 sq. ft.) for a finished surface. With **horizontal** surfaces the various coats can be applied evenly and generously – with overlaps – with a brush or foam roller (which must be resistant to solvents). With **vertical** surfaces, to prevent the coating from running, it may be necessary to thin the coating between 10% and 30% with our “**COELAN® THINNER**”. The number of individual coats should then be increased correspondingly (8-10 coats). Be sure to achieve the finished minimum thickness of 1 millimeter or 0.039 inches. Depending on weather, temperature and relative atmospheric humidity, drying time for each of the coats will be between 2 and 6 hours. Sanding in between coats for bonding is required only when intervals between coats are more than 14 days. Sanding should be

done with **#80 grain**. It is **important** that the directions regarding coating quantities be followed. Spray application gives particularly good results. Depending on the spraying process used, viscosity should be suitably adjusted with our "COELAN[®] THINNER" (e.g. at low pressure, 0.7 mm-nozzle, set at 40-35 DIN sec.-DIN 4 measuring beaker). Please pay attention to the additional consumption rates due to spraying loss.

ATTENTION:

For the application of anti-slip areas, please refer to the appropriate of this guide booklet.

Coating will not bond with silicone based joint sealants (such as Silicon, WKT., etc).

When a can has been opened, it is recommended it be used up the same day to prevent possible hardening inside the can due to effects of moisture in the air.

Residual moisture in the wood should be in the range of 12 to 15%. In the case of old wood, moisture should also be measured in the core or plank center using a hand held battery powered, dual probe moisture meter.

Use of Retardation Agent may be required when high ambient air temperature (> 86°F / +30 °C.) and/or humidity (> 85%) are present.

It is recommended the finished surface not be placed in service until 7 days after the application to ensure full curing of the coating.

COELAN[®] boat coating should be used only **above the waterline**.

An intermediate sanding to remove bulging wood fibers or dust may only be effected after having applied the second layer of coating. Do not sand the applied primer as the pigments of the primer will be removed.

Remember that **COELAN[®] boat coating** bonds well on nearly every surface including your skin. You should therefore wear **protective gloves**.

Please also refer to our Tips.

“ANTISLIP” FOR A SAFE GRIP WHERE YOU NEED IT

COELAN® boat coating is slip-proof even if “ANTISLIP” is not sprinkled on. However, “ANTISLIP” provides additional safety in working areas, e.g. around the mast, on the fore deck and at the windlass as the effects of water and spray are unpredictable.

THE ANTISLIP-PUNCHED TAPE WAS DEVELOPED BY COELAN®

PREPARATION:

Anti-slip material is always applied to a finished surface.

Remove the backing paper and secure the ANTI-SLIP-PUNCHED TAPE in the desired area of application. If more than 14 days have elapsed since the coating operation was completed; sand the area inside the pre-punched holes with # 80 grain paper.

In selecting larger areas for ANTISLIP application, mark off the outline of the area by temporarily applying masking tape around the entire border and then lay parallel sections of the pre-punched tape.

To apply ANTISLIP to open deck areas and covering the entire plank surface, mark off the border area with masking tape. If more than 14 days have elapsed since the coating operation was completed; sand the area inside the pre-punched holes with # 80 grain paper.

“ANTISLIP” can be applied on transparent or colored coatings.

HOW TO APPLY THE COATING:

The taped-off surfaces should be thoroughly cleaned with a vacuum cleaner. Apply one coat of **COELAN® boat coating** inside the 1 inch pre-punched holes. Coverage will be approx. 250 ml/m² (8.45 fl. ounces per 10.8 sq. ft.) The coating can be either transparent or colored.

Before scattering in the glass beads, please carefully remove the pre-punched tape. The glass beads should now be sprinkled over the still wet coating. A household salt shaker may be used to make applying the glass beads easier and with less waste.

The glass beads will stick to the freshly coated 1 inch diameter areas and will gradually sink into the **COELAN® boat coating**.

Using this method, you can also create an anti-slip surface on fiberglass (GRP) or steel surfaces.

FIBERGLASS - REINFORCED PLASTIC – GRP

COELAN® boat coating can also be used to renovate fiberglass-reinforced plastic boats, swim steps and platforms.

Plastic surfaces are subjected to heavy wear. This is indicated by crumbling surfaces and hair line cracks in the gel coat. When you see these symptoms, you know that renovation is urgently required.

PREPARATION:

Degrease the plastic surface and sand it down thoroughly with **#80 grain** sandpaper. Remove the sanding dust with a vacuum cleaner. Please do not use any solvents!

Smaller hair line cracks can be covered with the coating. Larger cracks should be slightly enlarged and then filled with **COELAN® boat coating**.

If the cracks are too deep, they can be filled up with epoxy resin filler. When dry, the filled part is sanded down again.

HOW TO APPLY THE COATING:

The surface is now ready for the first coat of **COELAN® boat coating** – white or colored.

In order to achieve the different color shades mentioned in our scheme (special colors upon request), it is necessary to fill the complete content of the color paste tube into the can with transparent **COELAN® boat coating**. Take a paddle and carefully and thoroughly mix the color paste with the coating. Be sure the mixture is free of bubbles and color streaks. The colored mixture should be applied immediately. Consumption: A single 37 ml (1.25 fl. ounce) tube per 375 ml (12.68 ounces) of **COELAN® boat coating** (2 tubes for 750 ml /25.36 fl. ounces – 8 tubes for 3 l). All the colors can be mixed with each other.

COELAN® boat coating should be applied evenly in several coats (approx. 5-6 coats) and achieving a finished minimum thickness of 1 millimeter or 0.039 inches. Consumption will be **1000 ml per square meter** (1.06 US qt. per 10.8 sq. ft.) for a finished surface. With **horizontal** surfaces the various coats can be applied evenly and generously – with overlaps – with a brush or foam roller (which must be resistant to solvents). With **vertical** surfaces, to prevent the coating from running, it may be necessary to thin the coating between 10% and 30% with our "**COELAN® -THINNER**". The number of individual coats should then be increased correspondingly (8-10 coats). Be sure to achieve the finished minimum thickness of 1 millimeter or 0.039 inches. Depending on weather, temperature and relative atmospheric humidity, drying time for each of the coats will be between 2 and 6 hours. Sanding in between coats for bonding is required only when intervals between coats are more than 14 days. Sanding should be done with **#80 grain**. It is **important** that the directions regarding coating quantities be followed. Spray application gives particularly good results. Depending on the spraying process used, viscosity should be suitably adjusted with our "**COELAN® THINNER**" (e.g. at low pressure, 0.7 mm-nozzle, set at 40-35 DIN sec.-DIN 4 measuring beaker). Please pay attention to the additional consumption rates due to spraying loss.

ATTENTION:

Coating will not bond with silicone based sealants (such as Silicone, WKT., etc).

When a can has been opened, it is recommended it be used up the same day to prevent possible hardening inside the can due to effects of moisture in the air.

Use of Retardation Agent may be required when high ambient air temperature (> 86°F / +30 °C.) and/or humidity (> 85%) are present.

COELAN® boat coating should be used only **above the waterline.**

Please also refer to our Tips.

STEEL BOATS AND ALUMINUM BOATS

COELAN[®] boat coating can also be used on steel and aluminum boats.

However, an intact corrosion layer or a solid unbroken old coating is required.

The usability of an existing old layer of coating can be tested with the so-called adhesive tape tear-off test. Apply a section of masking tape to the test surface, rub it on firmly with a thumbnail, and then lift off the tape in a quick and smooth motion. If the old coating remains in place after this test, it is strong enough to support a new coating.

PREPARATION:

Degrease the old coating and sand it down with #80 grain sandpaper. Any rust areas should be removed and primed with a suitable high quality rust primer.

When the rust primer has dried, larger irregularities can be filled with epoxy resin filler.

Give one more sanding to the filled surfaces and dust thoroughly. Please do not use any solvents!

HOW TO APPLY THE COATING:

The surface is now ready for the first coat of COELAN[®] boat coating – white or colored.

In order to achieve the different color shades mentioned in our scheme (special colors upon request), it is necessary to fill the complete content of the color paste tube into the can with transparent COELAN[®] boat coating. Take a paddle and carefully and thoroughly mix the color paste with the coating. Be sure the mixture is free of bubbles and color streaks. The colored mixture should be applied immediately. Consumption: A single 37 ml (1.25 fl. ounce) tube per 375 ml (12.68 fl. ounces) of COELAN[®] boat coating (2 tubes for 750 ml /25.36 fl. ounces – 8 tubes for 3 l / 3.17 qt.). All the colors can be mixed with each other.

COELAN[®] boat coating should be applied evenly in several coats (approx. 5-6 coats) and achieving a finished minimum thickness of 1 millimeter or 0.039 inches. Consumption will be 1000 ml per square meter (1.06 US qt. per 10.8 sq. ft.) for a finished surface. With horizontal surfaces the various coats can be applied evenly and generously – with overlaps – with a brush or foam roller (which must be resistant to solvents). With vertical surfaces, to prevent the coating from running, it may be necessary to thin the coating between 10% and 30% with our “COELAN[®] -THINNER”. The number of individual coats should then be increased correspondingly (8-10 coats). Be sure to achieve the finished minimum thickness of 1 millimeter or 0.039 inches. Depending on weather, temperature and relative atmospheric humidity, drying time for each of the coats will be between 2 and 6 hours. Sanding in between coats for bonding is required only when intervals between coats are more than 14 days. Sanding should be done with #80 grain. It is important that the directions regarding coating quantities be followed. Spray application gives particularly good results. Depending on the spraying process used, viscosity should be suitably adjusted with our “COELAN[®]-THINNER” (e.g. at low pressure, 0.7 mm-nozzle, set at 40-35 DIN sec.-DIN 4 measuring beaker). Please pay attention to the additional consumption rates due to spraying loss.

ATTENTION:

Coating will not bond with silicone based sealants (such as Silicone, WKT etc).

When a can has been opened, it is recommended it be used up the same day to prevent possible hardening inside the can due to effects of moisture in the air.

COELAN[®] boat coating should be used only above the waterline.

ALUMINUM BOATS: The surface should be sanded and given one thin coat

of 4:1 wash primer.

The coating should be applied as directed above.

Please also refer to our Tips.

INFLATABLE DINGHIES – FENDERS - AND SHEER RAILS

Here again, **COELAN® boat coating** has proven to be a real problem solver.

Inflatable dinghies are exposed to very heavy wear as well as the combined effects of sun and wind. The relatively thin fabric or neoprene rubber coating can quickly become brittle and crack due to UV radiation, sand and mechanical abrasion. This is particularly true at the seats, rub rails and on the bottom.

Fenders and rub rails have many uses on board. They protect a boat hull from contact with docks, harbor walls, moorings and other vessels.

Unfortunately, most fenders are not resistant to oil, fuel or solvents. The surface can very quickly become cracked and dirty.

PREPARATION:

For a perfect coating, fully inflate the fender or air tube.

Degrease the surface with soapsuds and rinse off with clear water.

Then roughen the entire surface with **#80 grain** sandpaper

Thoroughly remove sanding dust.

Lay the dinghy or the fender, bottom up on two trestles and start the priming.

HOW TO APPLY THE COATING:

FLEXO-Primer is needed as a primer to ensure optimal bonding with the flexible surface.

Apply a wafer-thin coat of approx. 50-70 ml/m² (1.69 – 2.37 fl. ounces per 10.8 sq. ft.) **FLEXO-Primer** with a soft brush or rub it on with a clean lint free cloth. After approx. 30 min. the primer will be sufficiently dry for the boat to be turned over.

The substrate is now ready for coating with the transparent or colored **COELAN® boat coating**. Consumption: 500-700 ml/m², (16.91 – 23.67 fl. ounces per 108 sq. ft.) depending on the type of material. In order to obtain the different color shades mentioned in our scheme (special colors upon request), it is necessary to empty the complete contents of the color paste tube into the can and mix with transparent **COELAN® boat coating**. Use a paddle and carefully mix the color paste and with the coating to achieve a homogeneous mixture free of streaks and bubbles. The colored mixture should be applied as soon as possible. Consumption: A single 37 ml (1.25 ounce) tube per 375 ml (12.68 fl. ounces) of **COELAN® boat coating** (2 tubes for 750 ml / 25.36 fl. ounces – 8 tubes for 3 l / 3.17 quarts). Any of the color pastes can be mixed together to obtain custom colors.

With **horizontal** surfaces the various coats can be applied evenly and generously – with overlaps – with a brush or foam roller (which must be resistant to solvents). With **vertical** surfaces, to prevent the coating from running, it may be necessary to thin the coating between 10% and 30% with our “**COELAN® THINNER**”. The number of individual coats should then be increased correspondingly (8-10 coats). Be sure to achieve the finished minimum thickness of 1 millimeter or 0.039 inches. Depending on weather, temperature

and relative atmospheric humidity, drying time for each of the coats will be between 2 and 6 hours. Sanding in between coats for bonding is required only when intervals between coats are more than 14 days. Sanding should be done with **#80 grain**. It is **important** that the directions regarding coating quantities be followed. Spray application gives particularly good results. Depending on the spraying process used, viscosity should be suitably adjusted with our "COELAN[®] THINNER" (e.g. at low pressure, 0.7 mm-nozzle, set at 40-35 DIN sec.-DIN 4 measuring beaker). Please pay attention to the additional consumption rates due to spraying loss.

ATTENTION:

After a lengthy time in the water, barnacle or algae fouling may occur on the fender surface. Cleaning with a brush and fresh water will restore the finish.

Coating will not bond with silicone based sealants (such as Silicone, WKT etc).

When a can has been opened, it is recommended it be used up the same day to prevent possible hardening inside the can due to effects of moisture in the air.

The coated surfaces are now resistant to oil and solvents.

Please also refer to our Tips.

COESHIP® DECK

THE MULTI-COLORED BOAT COATING OUT OF ONE PAIL

PREPARATION:

Steel and aluminum boats: please refer to page 21 of this guide.

Fiberglass – GRP boats: please refer to page 19 of this guide.

Wooden boats: please refer to page 6 - 17 of this guide.

For an exact and well defined border; masking tape should be applied around the edges of the prepared substrate area before starting the coating process.

ATTENTION:

The boundary adhesive masking tape should be removed approx. two hours after the coating is applied.

The COESHIP® DECK COATING has to be mixed carefully with a clean wooden stick before application. If silver or gold glitter finish is desired, use COELAN® glimmers which can be added directly into the pail and evenly mixed. Now the mixture can be applied onto the prepared substrate by simply pouring it out of the pail. Using our special spatula evenly spreading the mixture in all directions until the substrate is no longer visible. This application method ensures an even and regular film thickness. Consumption: depending on the substrate min. 1.6 L/m² (1.69 qt.) (Approx. thickness is 1.7 mm / 0.067 inches).

The coating will cure overnight to a durable, hard covering with a rough surface finish. This rough surface supplies the necessary anti-slip effect on boat decks. If a smoother **COESHIP® DECK COATING** surface is required, then the next day lightly sand the surface with sandpaper. Further treatment is not usually necessary.

COELAN® LAMELLAR DECK

THE SOFT DECK COATING

PREPARATION:

Steel and aluminum boats: please refer to page 21 of this guide.

Fiberglass - GRP boats: please refer to page 19 of this guide.

Wooden boats: please refer to page 6 - 17 of this guide.

The EPDM Micro granules have to be mixed with the transparent **COELAN® boat coating** in a percentage by weight of 43%. This self-leveling mixture can then be spread on the prepared surface using a special spatula.

Immediately afterwards the bordering adhesive tape has to be removed. Then, using a common fine mesh kitchen sieve, shake EPDM Micro granules thoroughly and liberally over the entire surface.

The next day the surplus granules can be vacuumed up and the new deck coating is now ready for use. (Any clean surplus and collected granules can be used again).

Please note:

The flow and leveling properties are influenced by air humidity, air temperature and on the temperature of the substrate to be coated. Therefore it may become necessary to dilute the mixed material by adding **Coelan® boat coating** or to thicken the mixed material by adding COELAN® EPDM Micro granules.

Consumption:

Approx. 1.3 l/m² (1.37 qt. per 10.8 sq.ft.) **COELAN® boat coating** – transparent

Approx. 1600 g/m² (3.53 lbs. per 10.8 sq.ft.) EPDM Micro granules.

Delivery units of EPDM Micro granule

1 mixing barrel

incl. 3 x 310 g (10.93 ounce) bags of granules, is sufficient for a 750 ml (25.36 ounce) tin of **Coelan® boat coating** is sufficient for an area of approx. 0.6 sq. meters (6.46 sq.ft.)

1 mixed delivery barrel includes:

12 x 310 g (10.93 ounce) bags of Micro granules, is sufficient for a 3 liter (3.17 qt.) pail of **COELAN® boat coating**. This is sufficient for an area of approx. 2.4 square meters (25.83 sq.ft.)

Please note: Delivery units of EPDM Micro granules do not contain the COELAN® boat coating material

COELAN® BOAT COATING

RENOVATIONS AND REPAIRS

COELAN® boat coating stands up to the heaviest environmental and surface abrasion loads. Fortunately the intervals between renovations are increased and infrequent repair is required.

However any damage that penetrates the coating surface should be immediately repaired.

For this purpose the damaged area should be gently and thoroughly sanded down in a circular pattern with **#80 grain** sandpaper. Alternatively the damaged area can be carefully cut out with a Stanley knife and then sanded. The resultant indentations should then be filled in sequential layers using **COELAN® boat coating**.

PREPARATION FOR SURFACE RENOVATIONS:

Degrease the surface with soapsuds and rinse off with clear water.

When dry, sand the surface down with **#80 grain** sandpaper.

Thoroughly remove sanding dust with a vacuum cleaner and wipe down the entire surface with a dust attracting cloth. Please do not use any solvents!

HOW TO APPLY THE COATING:

The surface is now ready for renovation with transparent or colored **COELAN® boat coating**.

In order to achieve the different color shades mentioned in our scheme (special colors upon request), it is necessary to fill the complete content of the color paste tube into the can with transparent **COELAN® boat coating**. Take a paddle and carefully and thoroughly mix the color paste with the coating. Be sure the mixture is free of bubbles and color streaks. The colored mixture should be applied immediately. Consumption: A single 37 ml (1.25 fl. ounce) tube per 375 ml (12.68 fl. ounces) of **COELAN® boat coating** (2 tubes for 750 ml /25.36 fl. ounces – 8 tubes for 3 l / 3.17 qt.). All the colors can be mixed with each other.

After having sanded down the surface and before applying the transparent coating; apply the yellowish, or the red colored **BOAT COATING PRIMER** (depending on the type of wood). This brings up the natural tone of the wood.

The pure **COELAN® boat coating** can either be applied by means of a brush or foam roller. 1-2 coatings have to be applied under consideration of the corresponding drying time. Spray painting gives particularly good results. Depending on the spraying process used, viscosity should be suitably adjusted with our **COELAN® THINNER** (i.e. at low pressure, 0.7 mm-nozzle, set at 40-35 DIN sec.-DIN 4 measuring beaker). The spray application results in thinner film thickness. Therefore it is important to ensure a final consumption of 300-400 ml/m² (10.14 – 13.53 fl. ounces per 10.8 sq.ft.) by applying several layers of coating. With vertical surfaces, to prevent the coating from running, it should be thinned between 10% and 30% with our **COELAN® THINNER**.

ATTENTION:

COELAN® boat coating should be used only **above the waterline**.

Depending on weather, temperature and relative atmospheric humidity, drying time for each of the coats will be between 2 and 6 hours. Sanding in between coats for bonding is required with intervals between the applications of more than 14 days. Sanding should be done with **#80 grain** paper. The application of anti-slip-areas is described on page 18.

Coating will not bond with silicone based sealants (such as Silicone, WKT etc).

When a can has been opened, it is recommended it be used up the same day to prevent possible hardening inside the can due to effects of moisture in the air.

Please also refer to our Tips.

REPAIRS:

When blisters or cracks appear, they should be removed. The surface should be sanded down properly in order to apply a new layer of coating.

PRACTICAL TOOLS

For excellent results, you will need good tools.

Some industrial products can be of great assistance to you here. The eccentric sanders (Rotex) and belt sanders are helpful for abrasive work on wood, plastics and steel. A surface miller is needed for sharp-edged joints. If you would prefer to spray the coating on, you will be able to work without paint mist under low-pressure conditions by using a high volume low pressure (HVLP) compressor.

Aids such as spray masks, protective gloves, hot air guns, scrapers and the Fein triangular sander for corners are important tools for boat renovation work.

NOTE:

To remove **COELAN® boat coating**, use a hot air gun (at **600° C**) and a good scraper.

Masking tapes that may have been used to define certain areas have to be removed within 1 hour of applying the coating. (I.e. before the coating is dry).

Surfaces should generally not be treated with solvents before applying a coating.

The coating can be discolored by water that had been in contact with copper or rust (for example through tubes and sheet-metal, etc.). Such discoloration cannot be removed.

Do not use solvent cleaners or household furniture polish or wax on finished surfaces.

Even acids from pollen or rotting leaves can lead to discoloration in the coating.

TIP:

As this is a product that hardens on exposure to atmospheric humidity, it is advisable to use up a can on the day of opening.

If the contents are not likely to be used up, the required quantity of **COELAN® boat coating** should be poured off and the remaining air column in the can should be replaced with dry air.

See a full selection of helpful user hints in our Working Tips document.

COELAN® BOAT COATING

The technical advantages at a glance:

1. Durable problem solver (for wood, GRP, steel aluminum, dinghies, fenders, etc.)
2. High elasticity (very important for wooden substrates as stresses are absorbed)
3. **Water vapor permeable** (allows the water vapor to escape)
4. UV stable (99% of the aggressive radiation is filtered)
5. One component coating (ready-to-use)
6. Easy application (painting, rolling, spraying)
7. Impact proof coating, 1 mm / 0.039 inches thick (for heavy use on board)
8. Non-slip (even in wet condition)
9. Very high abrasion resistance (ensures long repair intervals)
10. 12 color shades + 1 transparent-gloss + 1 transparent-silk

How to calculate your coating requirements

In view of the large number of application possibilities, it is not possible to provide a general formula. There is, however, a “rule of thumb” which you can use in many cases:

Hull: (above the waterline)

$$2 \times (\text{boat length} + \text{width}) \times \text{freeboard} = \text{m}^2$$

Deck:

$$0.75 \times (\text{length} \times \text{width}) - \text{area of superstructures and cockpit} = \text{m}^2$$

Hatch Covers, Hand Rails, Tables, Rectangular Surfaces:

Length X Width = area in square meters or square feet.

Masts, Spars:

Use a flexible tape measure and determine circumference. Then calculate as a rectangular surface. (Length X width/circumference).

COELAN® BOAT COATING PRIMER: Consumption is approx. 200 ml/m² (6.76 fl. ounces / 10.76 square feet)

COATING REQUIREMENTS:

For the boat deck coating you will need 1000 ml/sq. meter (1.06 US qt. per 10.8 sq. ft.) for a finished surface. Apply in 5-6 coats for horizontal surfaces. If for vertical surfaces the coating is thinned, 8-10 coats will be needed. Finished thickness of the coating is 1.00 mm / 0.039 inches minimum for both horizontal and vertical surfaces.

WORKING TEMPERATURES: Not below 5°C / 40° F. or above 30°C / 86° F. Relative atmospheric humidity should not exceed 85%.

Consideration must be given to direct sun exposure and the ambient and working surface temperatures during application and curing time for each of the multiple coating layers. Minimize/eliminate direct exposure of the bare and coated surfaces to the sun during coating applications by use of a shade canopy. If you are in tropical climate conditions; apply in late afternoon. In addition; it may be necessary to use the **COELAN® Retardation Agent** in a hot and humid climate.

Product MSDS's and Technical Data Sheets are available for all COELAN® products.

Please refer also to our

-FAQS

-WORKING TIPS

-STEP BY STEP APPLICATION INSTRUCTIONS

Disclaimer:

To the best of our knowledge, the technical information contained on this product information is reliable. As the product may be used in conditions that we cannot foresee, this advice is not legally binding. Furthermore, we reserve the right to make technical changes in line with progress. Publication of revised instructions for use and/or any existing technical information shall be invalid. For any queries, you may contact our technical customer service department. Agreements and warranties must in principle be in writing. Our General Terms and Conditions (GTC's) regarding delivery and payment apply.

COELAN® Marine Products

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