

FAQs

Frequently Asked Questions

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1. What is COELAN?

COELAN is a liquid one component polyurethane coating that remains permanently flexible. The hardening component is moisture in the air. Since it is a single component product, it is easy to apply.

2. What is FLÜSSIGKUNSTSTOFFE?

FLÜSSIGKUNSTSTOFFE is German for “liquid plastic”. Coelan Marine Coating is a proprietary and highly refined product. It is neither paint or varnish.

3. Why is COELAN better than varnish?

Due to its flexibility COELAN will expand and contract along with changes in the wood due to moisture, heat, and mechanical stress. And; leaks are usually stopped. In addition; COELAN is extremely resistant to UV and withstands damage due to abrasion and foot traffic. In fact, COELAN contains re-growth properties which allow the coating to automatically mend minor damage due to scuffing and abrasion.

4. How much stretch can COELAN have?

Elongation is approximately 335 %. This means that COELAN can be stretched to three times its length before breaking.

5. How long does COELAN last?

Product life is at least 5 years when applied in accordance with the instructions. instructions but many testimonies from boat owners report a ideal look even after more than 10 years.

6. How does COELAN withstand UV light?

COELAN coating and the associated primer, filters away 99 % of UV light. It is used on boats in the Mediterranean and Caribbean Sea and lasts for many years. We have clients who have experienced product life in excess of more than 10 years.

7. How does COELAN withstand salt water?

It retains it's gloss for years. Little if any touch up required.



8. How does COELAN withstand wear from sand or leather shoes?

When applied per manufacturers instructions, Coelan is a very resilient coating and stands up to heavy wear. Very useful for steps, benches, floorboards etc.

9. Does COELAN bond to teak and other oily woods?

Yes, it bonds very well to these woods. The appropriate primer affects this. Do not use thinners to remove oil and no other sealers are required. Just dry sand with 80 grain and vacuum thoroughly before putting the primer on.

10. Does COELAN bond to sealing compounds?

Yes, COELAN bonds to all polyurethane sealers, like Sikkaflex etc. Like may other products it does NOT bond to silicone sealers or silicone based products.

11. Is COELAN also available in a matte finish?

Yes, a matte finish can be applied on top of the last coating. It should be applied thinly as otherwise the matte effect will not come out. It is not recommended for decks or floorboards as it is more slippery than the gloss finish. This is due to the microscopic sized glass particles which create the overall matte effect.

12. How slippery is COELAN?

COELAN is far less slippery than ordinary varnish due to it's "rubbery" texture. Like most surfaces when wet, a risk of slipping always exists. There is a very effective anti-slip application possible using COELAN's glass beads along with the optional use of the ANTI-SLIP pre-punched tape.

13. How long will COELAN keep in the original container?

Unopened, at least 12 months. On each tin, the minimum shelf life date is indicated. COELAN Boat coating tin shall not be opened before the preparation of the surface has been completed and the thinner application and curing is completed according to the COELAN guidelines.



14. Does COELAN seal or encapsulate the wood like epoxy?

No, the COELAN coating has a micro porous structure which allows the transfer of moisture or condensation between the wood and the environment. This unique ability will prevent the properly applied coating from cracking or lifting. Deterioration of the wood is frequently a problem with most paint or varnish as moisture or the effects of UV light will erode the coating or wood.

COELAN coating, allows the wood to remain at it's natural low moisture equilibrium point. The wood must be dry (max. 15 % moisture content) when applying COELAN. Refer to the detailed user guidelines.

The microscopic coating porosity can, in very wet conditions, result in a milky condensation under the top layer of the coating. There is NO damage to the coating. In fact this is proof of the coatings ability to transfer moisture. In this case the transfer is inhibited by overlying moisture or small pools of water. The milky water condensation will disappear. This normal transfer capability is restored due to the combined effects of sun and wind.

15. Can a proper function of the Water-Vapour Exchange be proofed?

A great advantage of the product is WATER-VAPOUR EXCHANGE. This keeps the natural process of wood to "breathe" and exchange moisture. The innovation makes it possible that the natural condensation water has the ability to vaporise in a natural process. This protects the wood core from a creeping rotten process. Further like a valve it provides a way for the condensation to vaporisation and it avoids the tear and peeling of the coating caused by vapour pressure if not able to vaporise. The WATER-VAPOUR EXCHANGE of Coelan provide for an application that is good for many years! The typical WATER-VAPOUR EXCHANGE through the coating will be visible by a **temporary dimming of the surface or parts of it (spots)** at more moistures areas on the surface - an indication for the correct function of our system. I.e. this can proofed in the morning after heavy rainfalls, this milky colour disappears as soon as the sun shines again.

16. Has COELAN proven itself?

In Germany COELAN Industry Products have been on the market for many years. Based on the success the Coelan Marine Product line has been developed and is on the market for many years now. It's known in Europe as a top quality product and has proven itself in the Mediterranean where varnishes usually disintegrate in half a year. Articles in recent boating publications have also sustained COELAN quality and claims.



17. At what temperature ranges can COELAN be applied?

Between 5 and 30 degrees centigrade. No direct sun on surface! Use in constant or descending temperature. Temperature itself is not the prime concern. Relative air humidity (moisture) is more influential. High humidity = fast drying, (+/- 2 hours), low humidity = slow drying (+/- 6 – 12 hours). Use of COELAN Retardation Agent may be required.

18. How thick should the coating be?

In order to achieve optimum long term results and ensure maximum product characteristics, the final coating thickness must be 1.0 mm (0.039”).

On horizontal surfaces this value is normally reached in 5 very full layers, or 7/8 layers (thinned) on vertical surfaces. The COELAN must be thinned by +/- 25 % to prevent dripping. Only use the special COELAN THINNER. COELAN can be thinned to work more easily but always apply a rich full coat in order to get the best results. If possible, measure the thickness of the wood prior to coating and then apply 5 layers totalling 1.0 mm thick.

19. How long does it take for a coat to dry?

Between 2 – 4 hours in normal humidity conditions. Thereafter the next coat can be applied without sanding. One can work quite fast this way.

20. Do you have to sand in between coats?

No. No sanding is required if the next coat is applied within 14 days. The bonding is then chemical. This saves a lot of work. After 14 days sand with grain 80 to get good bondage.

21. Does COELAN contain adhesive properties?

Yes, COELAN is a very strong adhesive as well. So take care with putting COELAN coated objects on top of surfaces, they will glue together. This adhesive effect between two coated objects cures for approx. 14 days until the coating is fully set. So take care not to lay two coated objects against each other. Use wax paper in between if necessary. Use gloves for your hands.

22. How is the waterline treated?

Normally apply COELAN 0,5 centimeter on top of the anti fouling. Waterline can be painted with COELAN or a normal strong waterline paint. The product should not be applied below the waterline.



23. How is COELAN to be applied?

Please see the COELAN User Guide or the detailed Application Instructions on our web site.

24. How can COELAN be removed?

Use a heat gun to soften the coating and then lift with a wide putty knife. For localized areas; cut out damaged, area including sufficient boundary, with sharp utility knife. Re-sand, re-prime and build up several layers of coating to ensure minimum of 1.0 mm thickness and smooth transition onto adjacent existing coating.

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