



1991 Launch of product in UK

AMC take over production



2000

New distribution warehouse



2002 10th worldwide distributor



55ft GRP motor-boat Chichester Harbour, 1998



36ft GRP sailing yacht Portsmouth Harbour, 1995

Ten year lifespan anti-fouling

Developed in the 1980's and available to the public since 1991, COPPERCOAT is possibly the most powerful and long lasting anti-fouling available to the modern yachtsman. This hard wearing densely copper filled epoxy resin is successfully protecting tens of thousands of boats the world over, repeatedly saving their owners the time and expense of annual re-anti-fouling.

First marketed under the brand name Copperbot by C-Defence International Ltd, this revolutionary coating has been solely manufactured and distributed by Aquarius Marine Coatings Ltd since January 1998, under the name COPPERCOAT







As lifted in 2005

Active COPPERCOAT oxidises from brown to green over time

The advantages

COPPERCOAT is the obvious choice for owners searching for increased performance with reduced costs from:

EXTRA EFFICIENCY – The combination of a high copper content and a unique blend of biocides ensures ultra low growth rates and a clean hull. Furthermore, the self-levelling epoxy helps give the smoothest surface possible, guaranteeing increased efficiency. Motorboat owners report more speed at lower revs, meaning less fuel and reduced engine wear

For the ultimate finish, professional racers can choose to burnish the surface further – as has benefited COPPERCOAT using competitors in such varied events as the Vendee-Globe, the Trade Winds Rally and Chay Blythe's Trans-Atlantic Rowing Race.

EXTRA LONGEVITY - With such a low leach rate, hard wearing COPPERCOAT performs for many years and not just the single season of traditional paints. On GRP vessels, the epoxy will even help delay the potential onset of osmosis.

LOW MAINTENANCE - COPPERCOAT ends the need for the expensive and unpleasant annual chore of cleaning and repainting a boat's hull. Simply hose down the hull at regular intervals, commonly once a year, to remove any build up of sea-slime.

The product

COPPERCOAT is the combination of a specially developed solvent-free epoxy resin and high purity (99%) copper. Each litre of resin is impregnated with 2 kilograms of ultra fine spherical copper powder, the maximum allowed by law, making COPPERCOAT the strongest copper based antifouling available.

Classified as non-leaching, this highly effective coating is considerably kinder to the environment than its' self-eroding competitors whilst continuing to deter growth year after year. **Indeed, correctly** applied treatments resist weed and barnacle growth for a decade or more! The complete treatment has been certified by the Health and Safety Executive.



190ft steel super-yacht Greece, 2005

Testimonials

"The Coppercoat was applied to my boat over eight years ago. The coating has stood up well, with no loss of anti-fouling properties. A pressure wash when boat is lifted is sufficient to remove slime build up" Mr Mitchell Aberdeen, Scotland



"As an anti-fouling we have been articularly impressed by percoat's performance over he years and we would fidently recommend it". fachting Monthly magazine, after 8 year trial

"Having first applied the Coppercoat in 1994 I am delighted with how clean the hull still is." Mr Evans

Newark, Nottingham



Now must be the time to sider whether a long-term, n-eroding anti-fouling could be he answer to your fouling oblems, both economically and Captains Log magazine (2002)

with you."





65ft GRP motor boat Spain, 2001

40ft GRP commercial pilot vessel Poole Harbour, 1994



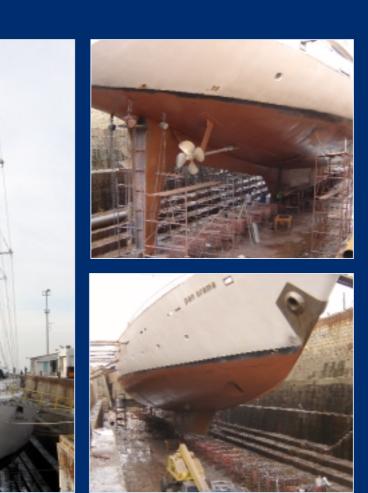
Commercial use on GRP and steel tidal-power generator, Bristol Channel, 2002



Steel 120ft superyacht 1995



Sultan of Oman's Sunseeker 63ft Predator



How it works

On immersion, sea water attacks the exposed pure copper powder, causing the formation of cuprous oxide. This highly effective anti-fouling agent deters growth until the surface degrades further to become cupric hydrochloride. This final copper form is highly unstable, and is washed away by the movement of the yacht, thereby removing any accumulating silt or slime. This automatically reveals a fresh copper rich surface, whereby the process recommences. With an average thickness of 250 microns of COPPERCOAT being applied in a treatment, and a typical corrosion rate of less than 10 microns per year, it is easy to appreciate how this coating offers such effective and long lasting protection.

Furthermore, the inherent waterproofing qualities of the epoxy ensures that a treatment of COPPERCOAT will help to prevent osmosis in GRP craft and offer extra protection against corrosion in steel vessels. With the resin carrier insulating each copper sphere, the total coating is inert and non-conductive. Consequently, COPPERCOAT does not cause electrolysis problems or cathodic decay on steel or aluminium craft. Sacrificial anodes should be fitted in the usual manner.



Three year test Poole, UK

- I Leading US conventional ant-fouling
- 2 COPPERCOAT
- 3 Leading UK conventional ant-fouling

Strength & performance

Since the banning of tin derivatives, copper has become the most popular metallic element in modern anti-fouls. However, only COPPERCOAT uses copper of 99% purity. This not only guarantees the maximum production of the powerful anti-fouling agent cuprous oxide, but also allows the correct rate of degeneration and exposure. Tests show that in products using less pure copper, or weaker alloys such as copper nickel, anti-fouling performance is substantially reduced - the inevitable result of a slower release rate and lower production of active cuprous oxide

When cured, the average pure copper content of modern COPPERCOAT is over 83% by volume, making it the most potent and copper rich anti-foul available to the general public.

It is this unique combination of copper purity, quantity and small particle size that allows COPPERCOAT to create and expose more active cuprous oxide to marine fouling than any comparable product. Consequently, the proven long-term performance of COPPERCOAT is unrivalled - as testified by legions of customers now enjoying their 9th, 10th and even 11th season of continuous protection!

"Thank you for treating this, my third Coppercoated boat, in nine years. It is a pleasure doing business

> Mr.Banham London, UK

"My Coppercoat application of over 6 years ago has worked very well. My friends are very impressed and several have followed my lead!" Mr. Fernandez Gibraltar



By reforming the epoxy resin carrier of Coppercoat antifouling, UK nanufacturer Aquarius Marine Coatings has given this product ncreased anitfouling performance, especially when a treated boat is rst launched. previously, said Ewan Clark, managing director, this was the time when a hull could be vulnerable to new growth as the original mula took some time to degrade and produce the cuprous oxide required to deter marine life.

International Boat Industry magazine (2004)

"The best performing anti-foul I have used, even now in its 7th season. Considering how inexpensive it is ${\sf I}$ don't understand why everybody doesn't have Coppercoat"

Mr Kendjian Cannes, France



Coppercoat can be applied to craft of virtually all materials, including left to right: GRP fibreglass (1994), steel (1994), aluminium (1994), wood (1992)

Application

of wood, steel and ferro-cement can also be

to the prepared surface by roller or spray. A complete treatment is usually achieved with four thin coats, applied "wet on tacky" in a single day (For full application details











thin application

Gelcoat highly visible through first

I Before treatment

2 First coat

Abraded, washed and ready for painting

3 Second, third and fourth coat As the coating thickness builds the gelcoat becomes less visible. Finished treatment looks glossy and deeply copper rich

4 After treatment Ready for relaunch

Product quantity

To determine the quantity of COPPERCOAT required, calculate the hull area by simply multiplying the waterline length by the addition of the beam and the draft.

Then, depending on the vessel, apply a factor: for full bodied craft, such as motorboats or displacement and full keeled yachts, no factor is applied; for medium bodied craft, such as large fin and skeg or bilge keeled yachts, multiply by a factor of 0.75; while for light bodied craft, such as fin keeled yachts, multiply by a factor of 0.6.

If the calculation is in feet, multiply the figure by 0.093 to convert to square metres.

Given that COPPERCOAT has an effective coverage rate of 4 square metres per litre, divide this figure by 4 to determine how many litres are required.

As lifted in 2003

2003 "I have been delighted with the

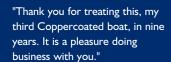
product or services that you may require please contact



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Mr.Banham London, UK "After 9 years of heavy use I would now like to apply this fantastic product again". Mr Rowe

New Plymouth, New Zealand.

"The Coppercoat is virtually the same as the day it went on in 1995 - it has save<u>d us a</u> small fortune".

Mr Standish St.Lucia, Caribbean



Naterkampioen magazine ruary 2005





Example #I

| Boat: | 34ft motorboat |
|--------------|--|
| Waterline: | 30ft |
| Beam: | 12ft |
| Draft: | 2ft |
| Calculation: | $30 \times (12+2) = 420$ sq ft x 0.093 |
| | = 39.06sq m ÷ 4 |
| Requirement: | 9.76ltrs |

Example #2

| Boat: | 30ft fin keeled yacht |
|--------------|---|
| Waterline: | 26ft |
| Beam: | l l ft |
| Draft: | 5ft |
| Calculation: | $26 \times (11+5) \times 0.6 = 249$ sq ft x 0.093 |
| | = 23.21sq m ÷ 4 |
| Requirement | : 5.80 ltrs |

1994 "I must say how pleased I am with the way the treatment is performing." Coppercoat, now in its tenth season!" Mr. Giles, Dorset, UK

For further information on Coppercoat, or any other coating, cleaning



Aquarius Marine Coatings Limited

WORLDWIDE: WORLDCLASS

