

COPPERCOAT-SUPERYACHT EPOXY ANTIFOUL

PRODUCT DATA SHEET

PRODUCT DESCRIPTION:

A water-based epoxy anti-foul for the long term protection of underwater surfaces against marine fouling. A single treatment commonly remains effective for between 10 to 20 years, even in harsh fouling environments. This hard cured epoxy treatment can be repeatedly scrubbed with no ensuing loss of thickness, life or performance.

PRODUCT INFORMATION:

Colour: Copper Brown

Finish: Semi-gloss

Specific Gravity: 2

Volume Solids: 66%

Mix Ratio: 1 part Base Resin to 1 part Hardener to 1 part Copper Powder (by volume)

Typical Shelf Life: 12 months at 20°C/68°F

VOC (As Supplied): zero g/lit. (VOC-Free)

Unit Size: 7.5 lt (Consists of 2.5 lt Resin, 2.5 lt Hardener, 2.5 lt Copper Powder)

DRYING/OVERCOATING:

	15°C	25°C	35°C
Over coating (with itself)	2 hr	1 hr	30 mins
Touch Dry	12 hr	8 hr	4 hr
Cured for immersion	4 days	3 days	2 days

Coppercoat-Superyacht is water based so drying/curing times will be effected by air-circulation, humidity, temperature and film-thickness.

SURFACE PREPARATION:

Steel and Aluminium: Surfaces must be cleaned of all contaminates, including dirt, dust, grease, rust or loose coatings. Coppercoat-Superyacht must only be applied to sound and permanent substrates - consequently all surfaces must be free of any previously applied single-pack paint coatings or conventional anti-fouling - either back to a sound substrate of two-pack epoxy primer or bare metal. For this, blast cleaning to Swedish Standard SA2.5 is recommended. Once cleaned the substrate must be primed with an appropriate anti-corrosive two-pack epoxy system before proceeding with the Coppercoat-Superyacht application.

(Note: Coppercoat-Superyacht is compatible with most marine and industrial epoxy priming schemes, including systems from Alexseal, Awlgrip, Hempel, International, Jotun etc. **Before finalising a coating scheme please contact us directly to confirm compatibility.**)

GRP: As with all epoxy coatings, it is important that the substrate to be coated is well prepared. All surfaces must be cleaned of all contaminates, including dirt, dust, grease, rust or loose coatings. Coppercoat-Superyacht must only be applied to sound and permanent substrates - consequently all surfaces must be free of any previously applied single-pack paint coatings or conventional anti-fouling - either back to a sound substrate of anti-osmosis epoxy primer or bare gel-coat. The best way to achieve this is to use a low-pressure slurry blast. Finally the cleaned substrate must be abraded to provide a good key. The use of 60 to 120 grade discs/paper is recommended. Remove the resulting dust before proceeding - either using a soft brush or dry cloth. The hull can be washed with fresh water, but ensure this is allowed to dry before proceeding. Under no circumstances clean the hull with any oil-based solvents (such as Acetone).

MIXING:

Coppercoat-Superyacht is supplied in three parts; Pack A (resin), Pack B (hardener), Pack C (copper powder). Diligently mix Pack A with Pack B. Continue to mix while carefully adding the copper powder. Stir until a fully homogeneous mix is obtained, with all the copper held in suspension. Note: during the mixed pot life, the copper may settle to the bottom of the mixing bucket - consequently do stir the product regularly to maintain the copper suspension.

THINNING:

Coppercoat-Superyacht should only be thinned with Iso-Propanol (or Iso-Propyl) alcohol. Coppercoat-Superyacht should be thinned (if necessary) by 5% for application by roller. Up to 20% thinner may be added for application by spray.

POT LIFE:

The mixed pot life is 40 minutes at 15°C, 30 minutes at 25°C and 20 minutes at 35°C. Never mix more product than can easily be applied by the workforce within the time available.

ENVIRONMENTAL CONDITIONS:

Do not attempt to apply Coppercoat-Superyacht if the ambient or hull temperatures are below 8°C. The substrate temperature must be at least 3°C above the dew point to prevent condensation. With the epoxy being water-miscible until cured, protect the newly treated hull from rain until the coating is hard cured (a minimum of 48 hours).

APPLICATION:

The product should be applied by airless or conventional spray (or short-pile roller) directly after mixing and while the copper is in full suspension. Do not attempt to apply Coppercoat-Superyacht by brush. For full instructions on spray techniques/settings, please contact us.

The application is a multi-coat system. A series of thin coats must be applied wet-on-tacky all in one day. Under normal circumstances a minimum of six coats are required. Each coat should be applied as soon as the previous coat allows - i.e. after approximately 1hr at 25°C. To ensure a satisfactory chemical bond between coats, all the required coats must be applied consecutively in a single day. If the vessel to be treated is too large to be painted with all coats in one day by the workforce available, simply treat a manageable sized section - apply all the necessary coats to this section from start to finish in one day, before proceeding with a further section at a later date.

Never attempt to apply any individual coat too thickly as this will result in sagging and runs.

Once cured, the surface should be burnished with fine (400 to 600 grade) wet-and-dry paper or sanding pads prior to immersion - this will expose the copper powder and increase the immediate potency of the anti-fouling. This process is particularly beneficial in areas of high fouling.

COVERAGE/THICKNESS:

Coverage (Theoretical): 2m²/lt. (for completed treatment)
Recommended minimum WFT: 500 microns (for completed treatment)
Recommended minimum DFT: 330 microns (for completed treatment)

To achieve the required total film-build (by spray or roller) it is likely that 6 passes (at approx. 83 microns WFT per pass) will be required.

GENERAL INFORMATION:

Exposure to air and extremes of temperature should be avoided. For the full shelf-life, Coppercoat-Superyacht should be stored at a temperature of between 8°C and 20°C. Keep out of direct sunlight.

TRANSPORTATION:

Coppercoat-Superyacht should be kept in securely closed containers during transport and storage.

SAFETY:

Read the label safety section for Health and Safety Information. Available from our Technical Help Line:
T. +44 (0)1258 861059

DISPOSAL:

Do not discard Coppercoat-Superyacht into the water course. It is best to mix the components and allow them to cure hard before disposal. Disposal of remainders should be arranged for in consultation with local authorities.

IMPORTANT NOTES:

The information here provided is not exhaustive. Any person using the product without first making further written enquiries as to the suitability of the product for the intended purpose does so at their own risk and we cannot accept responsibility for the performance of Coppercoat-Superyacht for any damage or (other than death or personal or injury resulting from negligence) arising out of such use. The information contained in this sheet is liable to modification over time in compliance with our policy of product development.

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