

## 25 year Anti fouling Control...

**Cuprotect® is a unique fouling control system that uses the proven anti-fouling properties of copper and copper alloys to provide complete protection even in the most stringent of conditions. Releasing minimal amounts of copper into the marine environment and containing no booster biocides; for this reason it is environmentally more acceptable than traditional biocidal paints.**

Cuprotect® is also functional in static environments, unlike foul-release paints, and is ideal for applications such as floating production units, VIV-suppression devices, mooring ropes, piling wrap jackets etc.

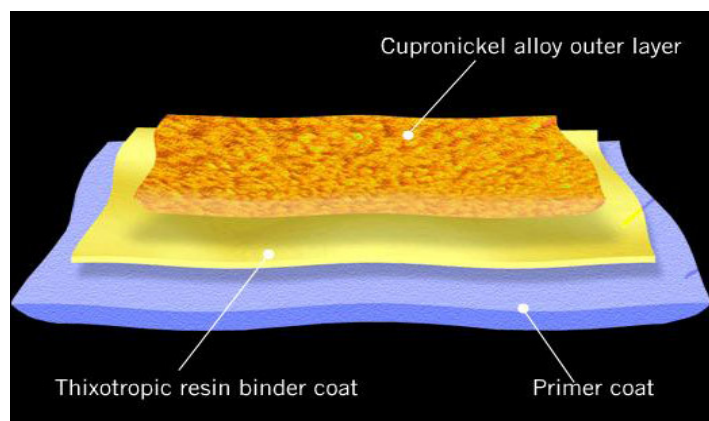
The zinc-rich primer, allows the system to double as a full corrosion resistance system in addition to its antifouling properties. All the primers and binders used in the system are based on existing, proven technologies.

Non-conductive, Cuprotect® will not interfere with existing CP systems.

This is due to the low conductivity of the Copper-Nickel granules incorporated into the system, allied with the insulating effect of the primers.



Left - Cuprotect coated side providing complete bio-fouling protection even in most stringent of conditions.  
Right- Illustrates untreated side of a substrate.



### **Cuprotect comprises of three primary layers:**

- Primary coat – urethane or epoxy resin.
- Binder coat – urethane or epoxy resin.
- Outer layer – cupronickel alloy in granular form

Cuprotect® granules are non-conductive due to the shape of the copper nickel particles. The small contact area between each particle (Branly effect) creates a high electrical resistance. As a result of this electrical resistance, the Cuprotect® coating is non conductive and therefore will not promote the risk of galvanic degradation or electrolysis. In addition, because Cuprotect® provides an impermeable layer between water and the substrate, which in addition to prevention of bio fouling, helps to protect against corrosion.



## APPLIED WITH CONVENTIONAL COATING TECHNIQUES

The application process is straightforward. Cuprotect® can be applied to large areas or targeted on specific fouling 'hot-spots', using conventional coating techniques.

## APPLICATIONS

- Risers
- Piling wrap jacket systems
- Strakes
- FPSO hulls
- Mooring ropes
- Buoys
- Steel jackets



## KEY BENEFITS

- High performance anti-fouling coating
- Significantly reduces operating expenditure
- Long-life – 25 years
- Highly damage tolerant
- CP system friendly
- Non reliant on booster biocides
- Environmentally aware
- Functional in static environments unlike foul-release paints
- Conventional application techniques



Above  
Chevron Clamps, Australia  
Pump inlet strainer, UAE  
Viv Strakes, Gulf of Mexico