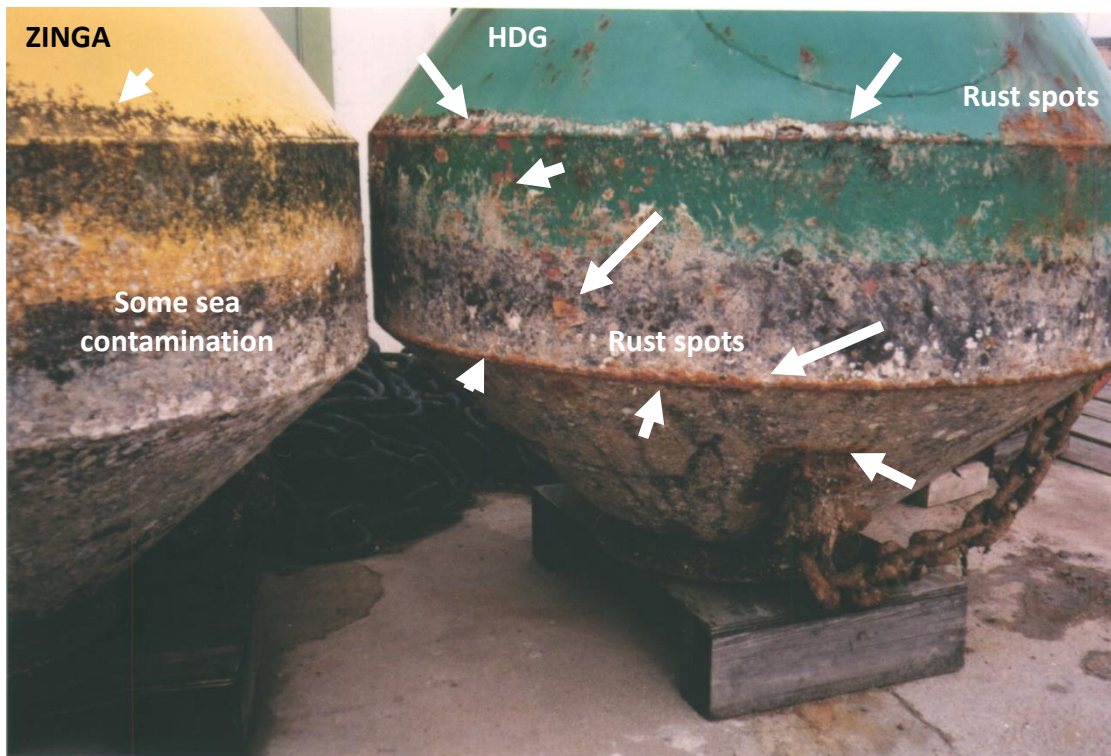


BUOYS – DIRECTION DÉPARTEMENTALE DE L'ÉQUIPEMENT NOIRMOUTIER, VENDÉE – FRANCE

These two sea buoys have been floating in the Atlantic Ocean, in Noirmoutier, for 4 years. The yellow buoy, a mild steel buoy protected with **ZINGA**, was compared to the green buoy that was galvanized by the traditional hot-dip process. The two buoys had received the same type of topcoats with the same layer thickness, with a supplementary adhesion coating for the hot-dipped buoy.



Conclusion of this test by the **DDE**: the buoy protected with **ZINGA** showed no trace of rust, but the hot-dip galvanised buoy was severely corroded in several places.

System:

Yellow buoy:

Duplex system ZINGA

Above the water line:

ZINGA	1 x 80 µm
2c Pu Plastilaque	2 layers

Below the water line:

ZINGA	1 x 80 µm
Epoxy Plastitar	1 layer

Green buoy:

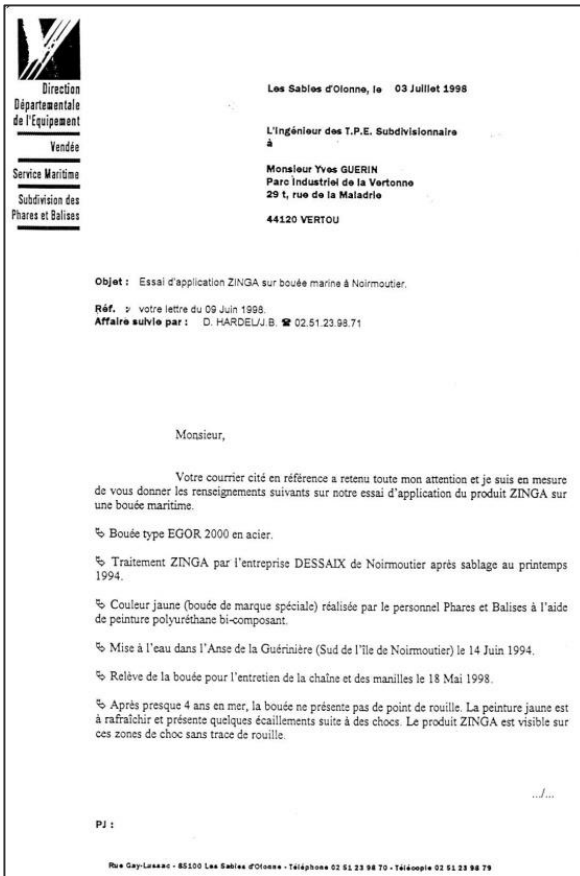
Duplex system hot-dip galvanisation

Above the water line:

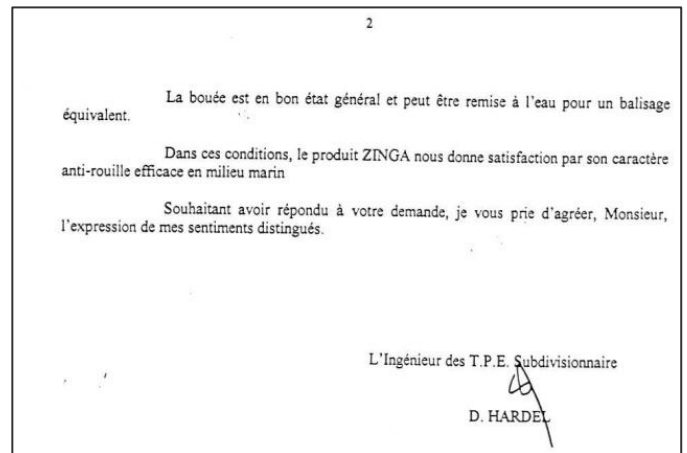
Hot-dip	80 µm
Galvalu	pickling
2c Pu Plastilaque	2 layers

Below the water line:

Hot-dip	80 µm
Galvalu	pickling
Epoxy Plastitar	1 layer



This is the testimonial from the DDE - Department Management of Equipment of Vendée, confirming the excellent behaviour of **ZINGA** in comparison to hot-dip galvanisation.



Translation

Direction Départementale de l'Équipement

From: Department Management of Equipment, Vendée,
Maritime Service, Subdivision of Beacons and Buoys

Subject: Test application Zinga on marine buoy in Noirmoutier.

Dear Sir,

I have devoted all my attention to your above mentioned letter and I am able to provide you with following information concerning our test application with Zinga on a marine buoy.

- Type of buoy EGOR 2000 made of steel.
- Treatment with Zinga by the company DESSAIX in Noirmoutier after sandblasting in the spring of 1994.
- Yellow colour (special mark buoy) effected by the personnel of "Beacons and Buoys" by means of a two component polyurethane paint.
- Launched into Guérinière bay (south of the Isle of Noirmoutier) on 14th June 1994.
- Removal of the buoy for maintenance of the chain and shackles on 18th May 1998.
- After a period of nearly 4 years in the sea, the buoy doesn't show a single rust spot. The yellow paint needs a little refreshing and shows some blisters due to shocks. The Zinga product is visible on these spots, without any trace of rust.

The buoy is in good general shape and can be launched into the water again for an equivalent period of time. In these conditions the ZINGA product gives us satisfaction because of its efficient anti rust character in a marine environment.