

# CORROSION COUPONS

# 88,5%

## REDUCTION OF CORROSION RATE

ODYSSEE FRENCH FILMING AMINES protect the metals from corrosion even in highly corrosive environments.



### PROTOCOL

Immersion of untreated and treated coupons in a very corrosive heated solution.

Observation and measurement of corrosion rate.

### SOLUTION

Hydrochloric acid 5% + City Water

### TEMPERATURE

176 F (80°C)

### TEST DURATION

2 hours



### INITIAL CONDITIONS

Steel coupon untreated before immersion.



Steel coupon coated by FFAs before immersion.



5% of hydrochloric acid solution before coupon immersion.

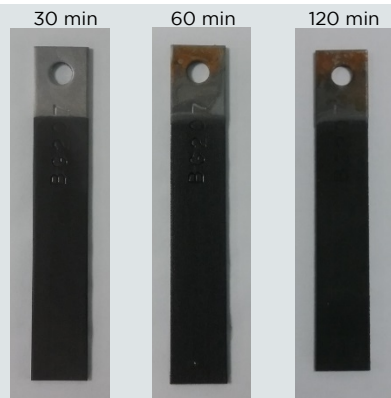
### TEST RESULTS

#### TRIAL WITH UNTREATED COUPON :

Corrosion of steel without protection.

Hydrochloric acid solution from colorless to pale green.

Corrosion rate after 2 hours of immersion : **4.488 mils/year.**



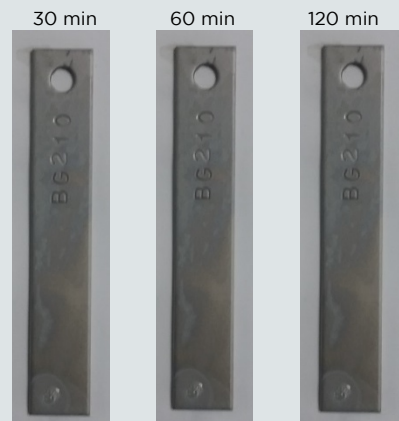
After 2 hours : corroded coupon

#### TRIAL WITH COUPON COATED BY ODYTHERM FS 500R

No corrosion of steel with ODYTHERM FS 500R protection.

Hydrochloric acid solution stays colorless.

Corrosion rate after 2 hours of immersion : **0.512 mils/year.**



After 2 hours : protected and non-corroded coupon

