



NEW CORALUM TREATMENT FOR MARINE APPLICATIONS

anti-oxidation protection for aluminum alloy
products installed in aggressive environments

"Treatment tested in neutral saline fog for 1,440 hours at least, equivalent to high durability in an environment with C5 corrosivity class"

What is CORALUM?

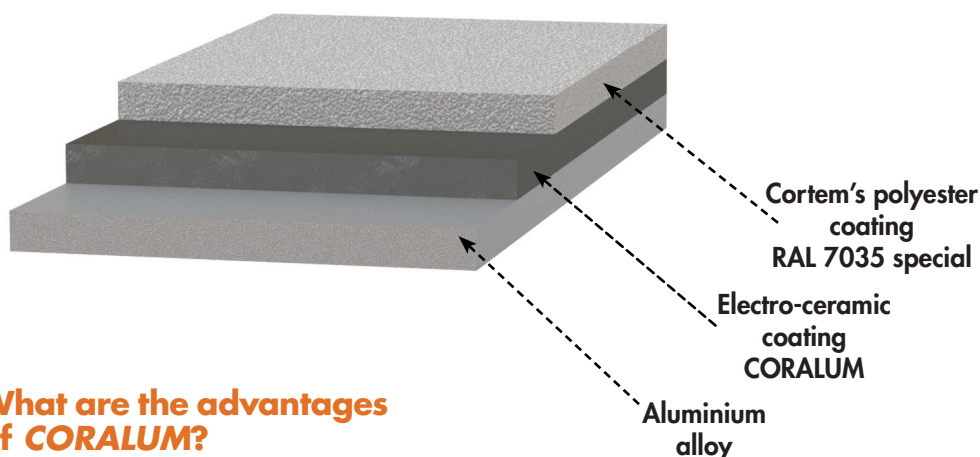
CORALUM is a surface protection treatment based on **an electro-ceramic coating** applied by electrolytic deposition method directly on the aluminium alloy. Above **CORALUM** is then applied the **Cortem's thermosetting powder coating based on cross-linked polyester resins RAL 7035 gray special**, pigmented with stainless steel powders to give a greater resistance to impact and an orange peel finish.

What are the features of CORALUM?

CORALUM provides superior performances compared to other treatments when used in aggressive chemical environments of industrial petrochemical plants and, above all, where there is a typical saline-humid environment in coastal and off-shore installations.

According to the most recent heavy tests carried out in the Cortem laboratory in the presence of high concentration salt spray, the normal passivation and painting treatments, supplied "standard" by Cortem on all the painted products, ensure an average life of about 1,000 hours without the oxidation affects the painted surfaces of the aluminum alloy.

With the simple and effective application of the **CORALUM** treatment, the anti-oxidation characteristics of the aluminum alloy increase by 100%, confirming the equivalence, in terms of classification on corrodibility, according to the C5 - UNI EN ISO 12944:2018 standard typical of steels.



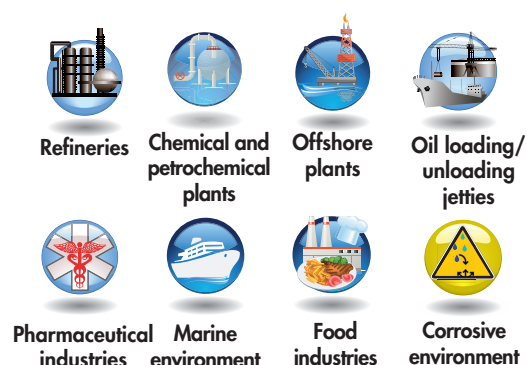
What are the advantages of CORALUM?

CORALUM allows to combine all the advantages of aluminum alloys with the typical characteristics of stainless steels such as resistance to corrosion from acids and alkalis, extreme hardness, antistatic and anti-abrasion properties.

This treatment also ensures savings in time and money: less maintenance of the surfaces of all the equipment made of aluminum alloy and a much lower initial cost than any other possible treatment or the use of more valuable materials.

Finally, **CORALUM** is environmentally friendly as it is not an anodic oxidation treatment.

What are the application areas of CORALUM?



"CORALUM is a surface treatment exclusively offered on Cortem Group aluminum alloy products upon request"