

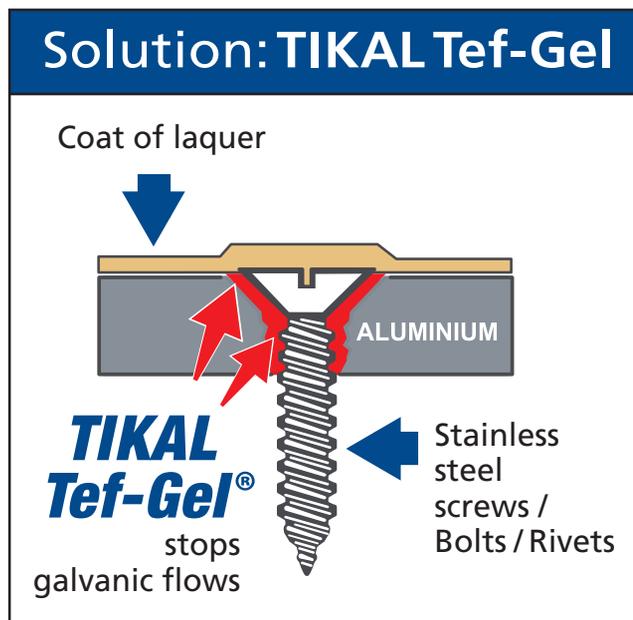
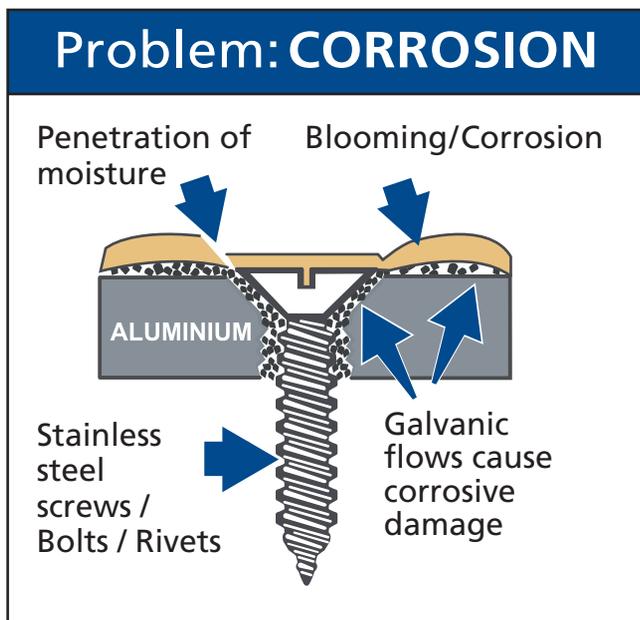


# TIKAL®

## MARINE SYSTEMS

# TIKAL Tef-Gel®

- Stops galvanic corrosion between unequal metals
- Permanent saltwater-proof and UV-resistant lubricant
- Very environment-friendly compared to competitors' products





# **TIKAL Tef-Gel®**

## **TIKAL TEF-GEL® – Stops corrosion!**

Two different metals connected to each other in a moist environment trigger a chemical reaction, called galvanic corrosion.

Each metal has a different potential, i.e. the ability to discharge electrons. If you connect two clearly different metals, there is a significant difference in potential between the metal bodies. Two poles are formed: one pole at which the metal has a low potential, the anode; and one pole at which the potential is higher, the cathode.

The anode discharges electrons. The released electrons feed a cathode reaction.

As a result, corrosion of the less refined metal is strengthened, while that of the refined metal is prevented.

In the maritime field, for example, aluminium is often combined with stainless steel. On the electro-chemical series, aluminium is far below stainless steel, meaning that potential for electron exchange is very high.



# TIKAL<sup>®</sup>

## MARINE SYSTEMS

The moist, sometimes saline environment assists exchange of electrons and the start of galvanic corrosion. You can see this, for example, on stainless steel brackets of aluminium masts or screw connections to aluminium hulls. At first there is a white powder, and later the surface breaks off completely. Blistering and flaky lacquer can even form under lacquered surface in the course of corrosion.

**TIKAL TEF-GEL<sup>®</sup>** provides permanent protection from such corrosion. It protects connections of various metals, and screw connections are kept workable permanently.



### Packing sizes:

- 10 g tube in display
- 60 g tin
- 360 g cartridge
- 500 g tin



## Examples



Stainless steel screw  
aluminium floor rail



Corroded  
aluminium mast



Stainless steel in alu-  
minium welded seam



Stainless steel coating  
on aluminium hull



Corroded VA screw  
in aluminium



Stainless steel bracket in  
aluminium shell plate

**TIKAL TEF-GEL®** is a watertight, PTFE-based paste which prevents the blooming of metal and also reliably prevents corrosion from galvanic flows between unequal metals. In all places where refined metals come into contact with less refined metals (eg. aluminium with stainless steel), a small amount of **TIKAL TEF-GEL®** suffices to prevent galvanic exchange of electrons and subsequent corrosion.

**Application:** **TIKAL TEF-GEL®** is applied to the surface to be protected, smoothly and evenly, directly from the tube or using a small brush. **TIKAL TEF-GEL®** never dries up, which means there is no processing time. Use turpentine to clean tools or surroundings.