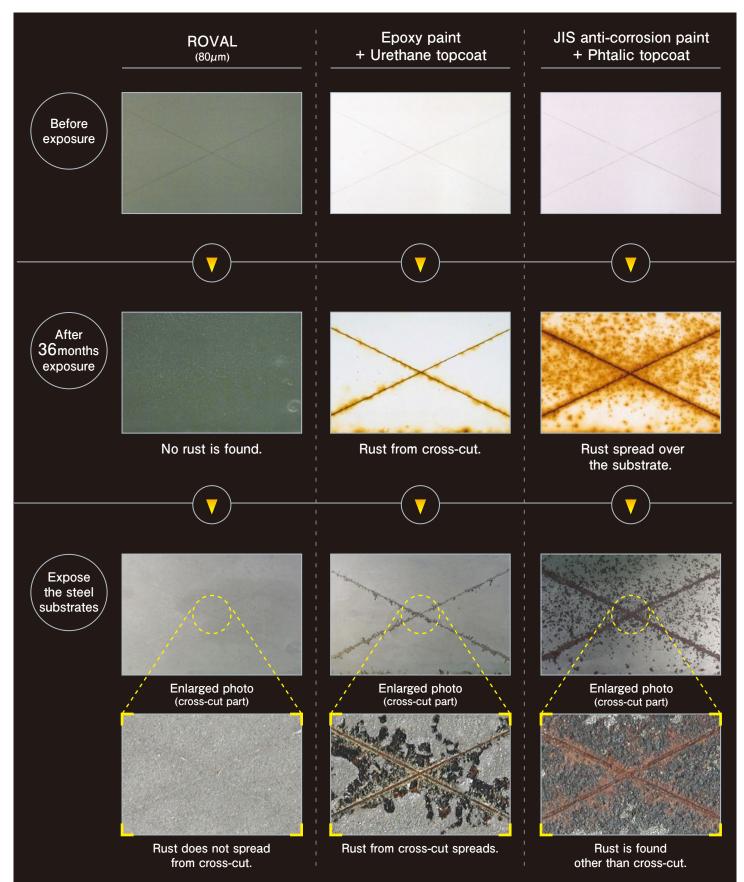
SINCE 1955

The difference of anti-corrosion mechanism

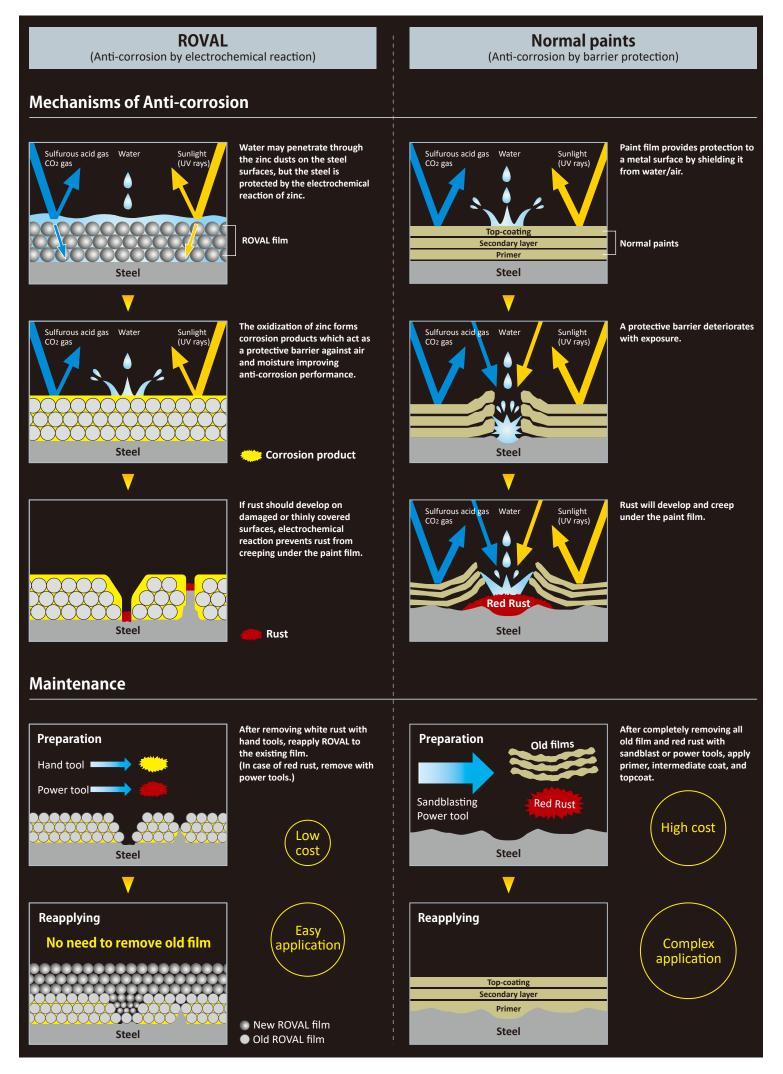
What is the difference between ROVAL and conventional paint?

A conventional paint film acts as a surface barrier to water and air. This is called "anti-corrosion by barrier protection." But once the film is damaged or has deteriorated, rust develops in that area and begins to spread underneath the film. ROVAL protects steel by the mechanism of electrochemical reaction, employing the self-sacrificing property of zinc. In the case of steel only, the reaction between the anode and the cathode occurs on the surface of the steel and rust occurs. However, when steel and zinc in close contact, the zinc side becomes the anode, and the zinc protects the steel by rusting instead of the iron.

Even when a ROVAL film is damaged, rust will not spread due to the presence of the surrounding zinc particles.



ROVAL vs Normal paints Anti-corrosion mechanism

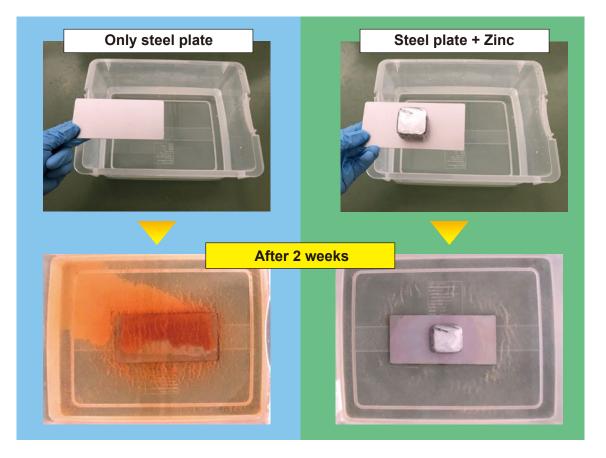


The zinc protects the iron by rusting instead of the iron

Prepare two steel plates and immerse one in salt water. On the other steel plate, put a slab of zinc and immerse in salt water.

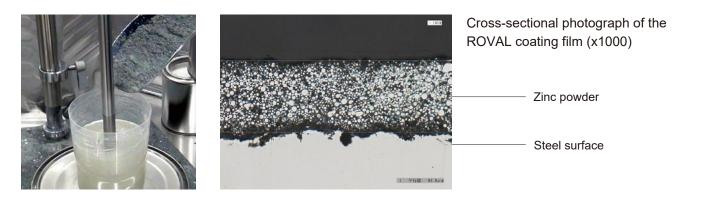
After 2 weeks, only the steel plate without zinc has rusted. On the other hand, the steel plate carrying a slab of zinc has not rusted.

This experiment shows the zinc protects the iron by rusting instead of the iron.



We succeeded in raising the dry film zinc content to 96% by mixing a large amount of zinc powder into a special resin.

Our competitors usually use around 70 to 80% zinc in their products, but we use a staggering 96%. ROVAL is a paint that can make the most of the anti-corrosion ability of zinc.



Cold Galvanizing Compound

