

MIC in ballast tank or monopile

MIC or pit corrosion is a very aggressive form of corrosion. This form of corrosion is caused by so-called sulfur-reducing bacteria. Biofilm also plays a role in this. The effects can be dramatic for walls or constructions. Both steel and stainless steel and other metals can be affected by MIC.

Damage to the ballast tanks or monopiles will considerably shorten the lifespan of the construction. In addition, much more will have to be spent on maintenance.

USAF™ (UltraSound AntiFouling) has been proven effective in combating bacteria in water. See literature study "Ultrasonic sound as a sterilization method" from the University of Utrecht. The transmitters produce micro cavitation bubbles. When these bubbles implode, pressure waves of up to 2000 bar arise. These pressure waves travels through the water. Microorganisms in the water are compressed by these pressure waves, causing the cell walls or membranes to rupture.

FIGHT MIC WITH USAF™

Controls bacteria

Fighting biofilm

High pressure ultrasound

Micro bubble principle

Damage to cell walls

Permanent treatment

Reduces maintenance

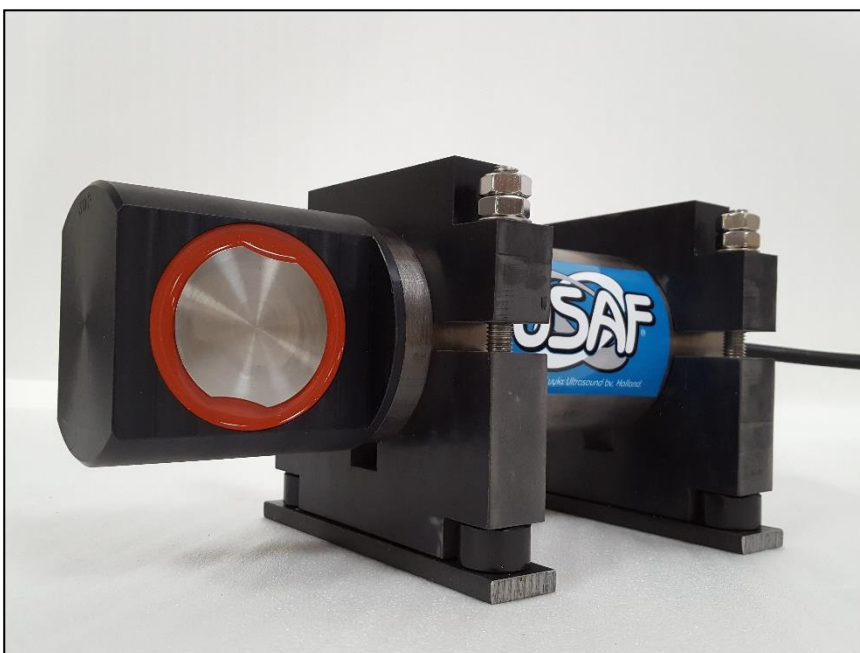
Extends service life

Low power consumption

Scientifically proven

Permanent control

Patented NL2000797



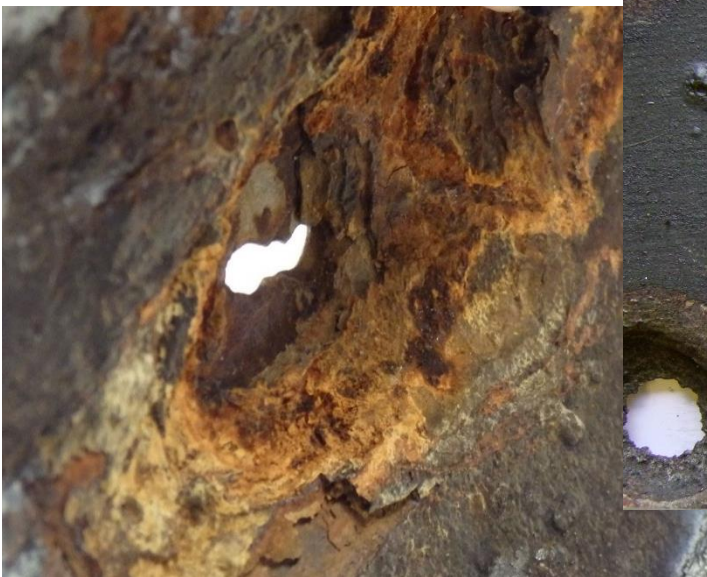
MIC no chance by combating bacteria and biofilm

MIC has no chance if the bacteria responsible for this, are permanently controlled by USAF™.

The pressure waves also prevent the formation of a biofilm on the walls of the tank or monopile. The oxidation takes place to a large extent under a biofilm. Preventing this biofilm therefore also plays a role in combating MIC. This biofilm is responsible for the propagation of micro-organisms, in particular bacteria.

Damage caused by MIC causes a lot of difficult maintenance and will ultimately considerably shorten the total lifespan of the structure. MIC is a fast-acting oxidation and affects the basis of the structure and therefore the profitability.

USAF™ extends
lifespan



*Luijckx ultrasound bv
Dorsvlegel 10
1648HX De Goorn (NL)*

*Mobile +316 535 12 961
Kees@ultrasoundinfo.nl
www.ultrasoundinfo.nl*

