

Corrosion control for complex areas

Innovation in Corrosion inhibition

CCS's Corrosion Inhibitors are based on a specialised technology known as VCI, or Vapour Corrosion Inhibition.

VCI's in their simplest form are chemical compounds that react with oxygen to produce a vapour with powerful anti-corrosion properties.

The inhibitors are crystalline solids which produce a vapour which expands within the enclosed space until the equilibrium determined by their partial vapor pressure is reached.

The volatility of the inhibitors is merely a means of transport. The inhibition process starts when the vapors reach the metal surface and condense on them forming a thin film of crystals.

In the presence of even minute quantities of moisture, the crystals dissolve and immediately develop strong ionic activity.

The result of such activity is the evolution of a molecular layer which creates a protective film on the metal surface.

This film excludes oxygen and moisture from reaching the metal substrate and so acts as a protective barrier to interrupt the corrosion cycle.

Because the anti-corrosion vapour is gaseous, it can travel and protect inaccessible areas - beneath bolt heads, between close-fitting components and into remote recesses and cavities.

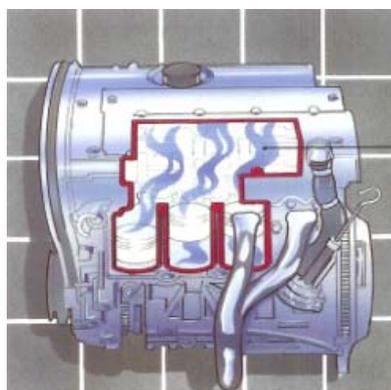
A major benefit of VCI's is that they also give protection against dissimilar metal corrosion.



A solution for any corrosion problem

The original Corrosion inhibitor compound came in a powder form, which could be applied simply by blowing into cavities, pipelines and void spaces.

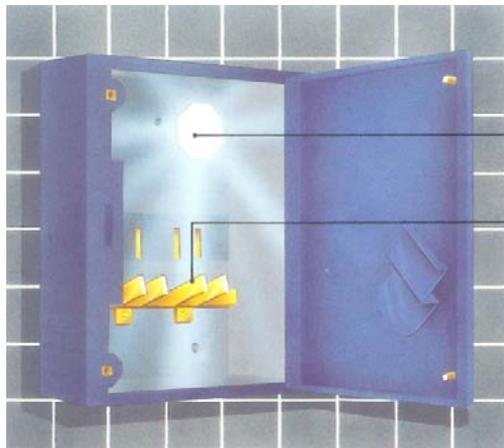
But this technology can now be incorporated into a wide range of other media, including solvent, water, oils, grease and wax.



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Corroless Corrosion Inhibitor Impregnated Pad

Vapour Migrates, to Metal Surfaces



VCI powder has been impregnated into a foam base to create an easy-to-use self-adhesive device for protecting electrical junction boxes and switchgear.

Suited to a wide range of complex corrosion problems - from small components in storage to wire ropes and hawsers, from open gearing to the internal surfaces of engines and compressors - Corroless Corrosion Inhibitors offer complete protection for virtually all areas that would otherwise be inaccessible.



Complete anti-corrosion systems

Corrosion Control Services offer a series of complementary technologies that can be utilised together to counter the effects of corrosion in the yachting market.

In addition to Corrosion Inhibitors, Corroless Rust Stabilisers and Reinforced Finishes provide a comprehensive system for complete corrosion control.



Corroless Rust Stabilisers contain an active anti-corrosion pigment which stabilises firmly-adherent rust, creating a protective barrier and eliminating virtually all sub-film corrosion.

Corroless Reinforced Finishes contain millions of heat-hardened glassflakes which self-leaf to provide a continuous barrier against the environment.

Utilised together these technologies can help combat corrosion on board.

Please contact us to arrange a **Corrosion Control Services** inspection where we will endeavour to identify your corrosion problems and provide you with cost effective solutions.

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Corrosion Control Services