Cortec: VpCI Technology for Marine and Shipbuilding

Posted by Eric Haun Monday, June 06, 2016

It is well known that corrosion causes destruction of structures and equipment as well as the loss of valuable resources, contamination of products, reduced efficiency and high maintenance costs. To help address these issues, Cortec has published a brochure delivering information on its latest-technology products and services in the field of marine and shipbuilding industries.

Photo: Cortec

Damages from corrosion in shipbuilding or the ones that occur in the exploitation of various vessels are especially harsh. Corrosion protection of such structures makes a big part of the cost of manufacturing process. Quality corrosion protection in the construction phase of the ship is of crucial importance for its functioning and use due to ship's demanding and complex structure and its exposure to extremely aggressive environments.

Optimal and smart corrosion protection is one of the key factors in the quality and price of the ship. Structures in shipbuilding, offshore and marine industries contain parts that are difficult to access or can even be completely inaccessible for quality and long-lasting protection. Parts of the ship structure are derived from a number of brackets, frames, stiffeners and reinforcements which makes them difficult for proper preparation and coatings protection.

In all of these cases the most efficient and economical technical solution is the use of high technology, patented VpCI corrosion inhibitors.

This group of inhibitors manufactured by Cortec Corporation protects the metals from atmospheric corrosion and is able to stop corrosion at a molecular level. The organic substances vaporize and travel to all parts of the metal surfaces reaching even inaccessible areas.

VpCIs have a very high range of application and their utilization is the result of technological as well as economic progress, when it comes to corrosion protection in shipbuilding. They are successfully and increasingly used in shipbuilding and marine industries due to their excellent properties including unique ability of protecting hard to reach areas.

VpCI inhibitors are recommended for protection of inaccessible areas of marine structures such as: keel, rudder, rubbing strip etc. They are also applicable and highly efficient in the protection of pipelines, marine and naval equipment as well as electrical contacts.

After contact with the metal surface, vapor condenses into air and forms a thin monomolecular film that protects the metal. Protective layer re-heals and self-replenishes through further condensation of the vapor. VpCI reaches every area the metal part, protecting its exterior as well as hard-to-reach interior surfaces. It provides complete product protection during storage as well as during domestic and overseas shipments.

According to Cortec, benefits of VpCI Inhibitors in Shipbuilding include multifunctional products; more effective protection; environmental safety; easy application; improved health, safety, and

pollution control; elimination of extra processing steps: in most cases there is no need to remove the VpCI/MCI product; extended equipment life; little or no surface preparation; prevents further corrosion of ferrous surfaces; VpCI- layer does not have to be removed prior to processing or use; VpCI does not interfere with operation of mechanical components; good temperature resistance and high resistance of adsorbed protective layer against corrosion.

A strong environmental concern is part of Cortec's past and future as Cortec produces and sells products that protect materials of all kinds from environmental degradation. A strong commitment to produce biodegradable products and to use sustainable resources has been and will be our future policy.

The brochure was developed in collaboration with Chair of Materials Protection, Faculty of Mechanical Engineering and Naval Architecture University in Zagreb.

Photo: Cortec

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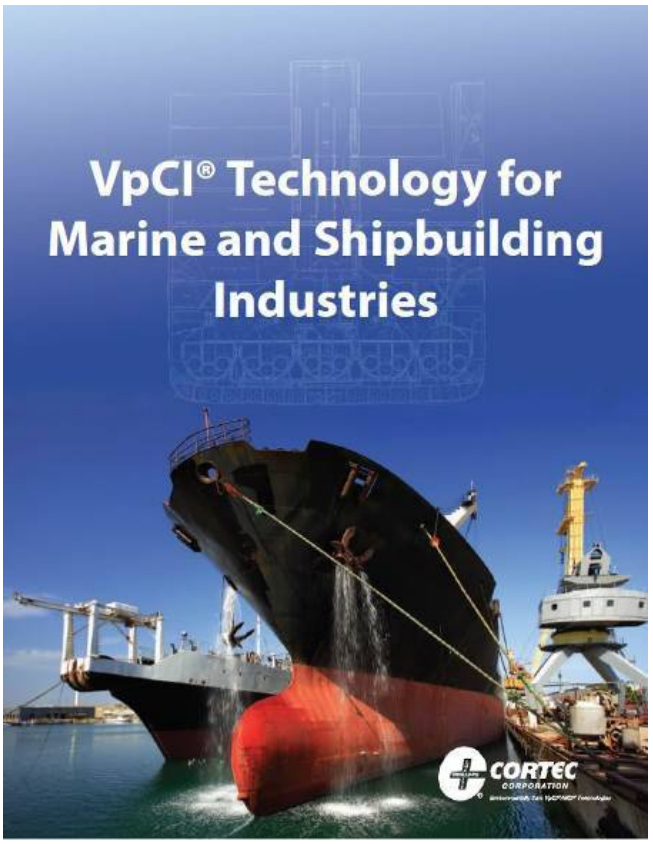

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SHIPBUILDING

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tonnage.

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The 'Big Three'—Daewoo Shipbuilding & M
Industries and Samsung Heavy Industries—
them. The firms

Carrier Newbuilds

dai Heavy Industries (HHI) for two new liquefied
ilt at HHI's shipyard in Ulsan for SK Shipping, a Korean

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and a seamless transition when adapting to the new
dedicated page on our website to

day the acquisition of 100 per cent of the shares in
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