



PROTEGA TECHNOLOGIES

Protega was originally founded on primers incorporating the unique Protega pigment, which “stabilizes” adherent rust into more stable iron oxides, thus providing excellent, longer term protection over compromise surfaces. The addition of VCI (vapor Corrosion Inhibitors) to the range made possible the “moth-balling” of many offshore structures in the Asia’s with Protega Corrosion Inhibitors, Protega materials were widely used in the marine market for ship’s maintenance, Protega materials have therefore been well “tried and tested” in some of the world’s most demanding environments for steel corrosion protection.

Anything made from steel, whether structural steelwork, a ship or offshore structure, or an electrical enclosure or piece of equipment, can be destroyed completely or rendered unusable by corrosion. The more severe the environment, the faster will be the corrosion and the shorter the lifetime of the item. Protega products exist to maximize the life of steel structures and equipment, by providing protection against corrosion in a wide range of environment and situations.

Protega products have been used in over many countries worldwide, from hot, dry desert areas to freezing marine environment, from damp, tropical climate to industrialized, polluted atmospheres. Their effectiveness has been shown time and again in a wide variety of situations. Whether for the internal of a ballast tank, for ship’s exterior superstructure or for the inside of an electrical switch cabinet, Protega can provide an effective solution for many common corrosion problems.

Protega products can be used to protect steelwork both at new construction and during maintenance painting. Protega primers are however particularly effective during maintenance painting, when only hand preparation is possible and the surface being coated is firmly adherent rust. Blast cleaning is frequently impossible or impractical during maintenance painting, and yet longer coating lifetimes are still demanded - Protega products can provide the answer.



PROTEGA – Corrosion Control For Years Of Experienced

Protega has become an established and respected name in the field of corrosion control throughout the world over the past years. By providing innovative and effective solutions to a wide range of corrosion problems, Protega has established an enviable reputation for performance and reliability in the anticorrosion field.

Protega Asia Pacific is the manufacturer for Protega products in the Asia Pacific region. Protega Asia Pacific recognize that supplying anticorrosion products is only part of the solution to practical corrosion problems in the field, which is why our approach to helping solve our client's corrosion problems is as follows:-

- We will carry out a comprehensive survey, on site, of the existing corrosion problems.
- We will then submit a report, detailing the areas requiring anticorrosion protection together with the recommended solutions to these problems.
- We can then either supply the products to your nominated contractor to carry out the work, or we can fulfill a Project Management role, to organize and oversee the entire protection work.
- Whether supplying material only, or project managing the whole operation, we can assist in monitoring the work in progress to ensure that strict quality standards are adhered to.
- On project completion, we can submit a final report if required.

This comprehensive and systematic approach to solving your corrosion problems provides effective solutions meeting your specification requirement, together with records of final survey and work carried out for future reference.



WHY CHOOSE A PROTEGA SYSTEM?

Protega offers effective solutions to a wide range of corrosion problems in many different environments. Protega products provide a variety of coating and VCI systems for the protection of many different structure and situations.

Protega manufactures its own products and is therefore in full control of product quality, development and specification. Protega is continually working on research and development for further improve existing products and develop new materials, while maintaining an environmentally responsible approach to coating development.

A world-class Research Center carried out a survey on the most common causes of coating failures, and they concluded that: “*Most coating systems rely on rather ideal conditions to guarantee optimum performance. These conditions are rarely encountered...*”. Protega products are designed to perform in real-life situations, where ideal surface preparation methods such as blast cleaning if often impossible, and where tolerance to less than ideal conditions is required.

The marine industry provides one of the most testing environment for anti-corrosion systems both in “new” and “used” equipment but most of all in the field of maintenance, where the success of any system depends on its tolerance to the application condition.

While it is certainly true that the better the standard of preparation and application, the better the coating lifetime is likely to be, Protega products have been shown to provide a degree of tolerance to less than ideal conditions, to maximize performance, whatever the situation.

Protega products provide the following key technologies to provide protection in a wide variety of conditions.



Protega Pigment

All protega primers for steel contain high level of the special Protega Pigment. This pigment, incorrectly formulated primers, has been shown by a variety of independent scientific test laboratories to gradually convert the orange, on stable iron oxides of typical rust, into the more stable and chemically inert, black iron oxide, magnetite. This magnetite becomes an inherent part of the rusted surface, stifling further corrosion and inhibiting rust spread.

In addition to the Protega pigment, Protega primers contain specially selected resins systems, to provide excellent adhesion and wetting of the steel surface. Particular Protega primers also have special properties such as heat resistance to 200 Celsius, a very low VOC (volatile organic concentration) content to comply with even the most stringent environmental standards, or exceptionally fast drying and over coating times. Some primers are also available in “tropical” versions for use in the hotter climate, and both single pack and two pack primers are available.

The combination of unique Protega pigment and the high performance resin systems, give Protega primers their excellent performance over hand prepared, rusty steel surfaces.

Protega Reinforced Finished

Protega primers offer such high performance than they deserve only the best topcoats for increase protection and decoration. Protega reinforce GF-series topcoat all contain specially manufactured glass flakes, to increase a range of properties such as impermeability, chemical resistance, abrasion resistance and weathering properties. The glass flakes are incorporated into the coating by a special process which enable them, when the paint film is applied, to “leaf” together to provide an overlapping barrier layer of millions of tiny glass flakes.

Protega finish coats not only provide and excellent cosmetics finish to a coating system but also enhance the protective properties of the Protega primers.

Many of the Protega primers themselves also contain the self leafing glass flakes technology, no further enhance the rust stabilization effect of Protega pigment.



Protega VCI'S (Vapor Corrosion Inhibitors)

Protega VCI's are an important part of the Protega range, as they provide anticorrosive protection in areas where conventional paint coatings could not - such as, in electrical cabinet, in the internal areas of complex machinery, engines and pipe work, and in areas where anticorrosive lubricants are required. The VCI materials gradually emit an anticorrosive vapor which forms a protective molecular layer on exposed metal surfaces, preventing corrosion. Materials for a wide variety of applications include wax coatings, greases and oils, clear films, powders and devices for electrical equipment.