



ORIGIN

The name *Proterium* has its origins in ancient Greece and literally means *protection*. And that is exactly what our premium coating stands for. *Proterium* is also a very appropriate combination of the English word *protection* and the Latin word *metallum*.

PROTERIUM®

Proterium® has developed a metal coating and this composite makes it possible to liquefy the metal powders aluminum and zinc, so they can be applied cold.

OUTCOME

An anti-corrosion agent with a lifespan of 20 years or greater, with only a single layer (single coating). The decrease in the coating is approximately 7.5 µm per year. One layer thickness of 150 µm is sufficient for 20 years under extreme weather conditions. After this period of time, the surface would need to be recoated. Taking into account a blasted surface of approximately 30 µm.



AREAS OF APPLICATION

- Ports
- Bridges
- Wind turbines
- Offshore
- Industry
- Ship-building

Proterium® can be used as single coat or as a part of anticorrosive coating systems

ADVANTAGES

- Considerable cost savings compared to current epoxy-based anti-corrosion techniques. For example, there are savings in hourly wages, drying time (versus a multi-layer system), and faster logistics;
- A minimum service life of 20 years against corrosion with a layer thickness of 170 µm, possibly up to 25 years, depending on the circumstances;
- Only one layer is required, while epoxy based products usually require a minimum of three to four layers;
- The layer is completely paintable;
- Application/processing with conventional spray equipment;
- Simple process minimizing investment costs;
- Significantly shorter drying time compared to multi-layer epoxy techniques;
- Damaged galvanized objects/layers are easily repaired by applying Proterium®.

TESTS

Proterium® has performed various physical (pilot) and chemical tests to ensure that our product meets the high industrial standard **C5M - Very High, ISO 12944**. At the moment, Proterium® is undergoing the final test phase: CX Extreme. Tested by TNO in Eindhoven and by Element Materials Technology in Amsterdam.

PREPARATION

To apply Proterium, the substrate must be blasted with SA 2.5

