

HIGH CORROSION PROTECTION – HCP

sikla

When corrosion protection becomes critical



High Corrosion Protection picking the best option

Though the retrospective costs and structural impacts can be significant, the effects of corrosion are often underestimated. If not carefully considered, it may be necessary to completely replace components or entire structures due to the impacts of corrosion. However, Sikla can provide assurances against corrosion with our High Corrosion Protection solutions, to facilitate project execution and provide corrosivity category C4, as standard in our product range.

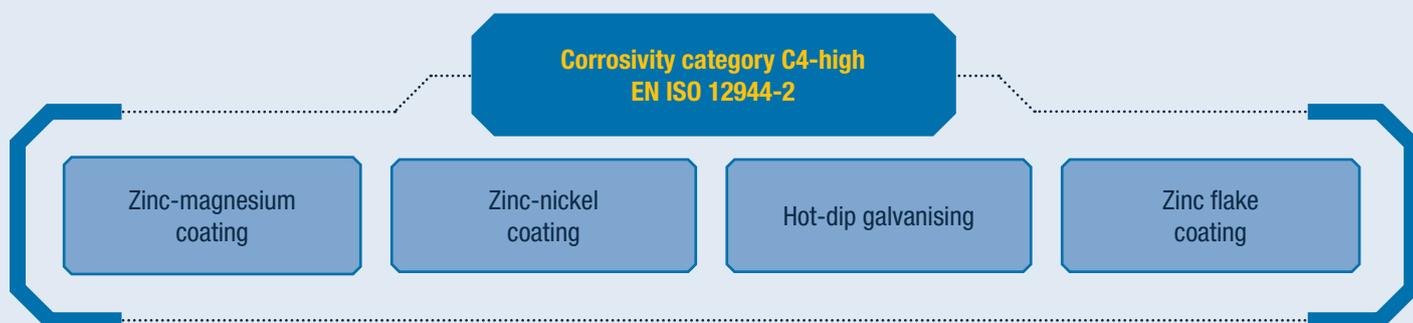
It is commonly known that reliable corrosion protection is best achieved with zinc. Zinc protects steel from corrosion in three main ways: firstly, a zinc-based separating layer creates a physical barrier between the steel and corrosive environment. Secondly, zinc inherently creates a patina on its

surface, forming a protective barrier that slows down the corrosion of the zinc itself. Finally, zinc and iron form a so-called “local element” in humid environments. This interaction releases electrons before it slowly dissolves. As a result, the steel is sacrificially preserved by the zinc.

HCP-protection system

Under the umbrella term “High Corrosion Protection – HCP” we offer customised corrosion protection. Components designated “HCP” comply with the corrosivity category C4-high.

To allocate a specific coating system to one of our products, we consider factors such as the product’s functionality (e.g. threads) as well as financial implications and industry expectations.



By carefully selecting coating processes, we can achieve significantly improved component protection, even with thin layers. Careful selection of coatings allows us to reduce resources and be more environmentally conscious, whilst allowing you to benefit from more efficient and more convenient methods.

Our comprehensive HCP product range can be checked in our Siconnect e-catalogue on sikla.co.uk and sikla.com.au

Environmental conditions / Corrosion expectation

Systematic corrosion protection planning requires thorough analysis of climatic site conditions. These can have negative impacts on the coating's durability. The norm EN ISO 12944-2 categorises climatic corrosivity categories. Additional corrosion factors such as storage, contact with adjacent materials and chemicals must be considered.

Sikla has ample practical experience with the subject of corrosion protection and will be on hand.



Traditional and siFramo 80 T-supports a few months after installation



After 6 years of weathering – Offshore (CX)

Customised High Corrosion Protection – When the project is tricky

Certain applications, e.g. coastal or aggressive atmospheres, necessitate an exceptional level of corrosion protection. In such instances, Sikla have a range of bespoke coating solutions to choose from.

These are some examples:

Zinc lamella coating

- Resistant to organic solvents
- Negligible coating thickness
- Environmentally friendly, as free from chrome VI and heavy metals

Cathodic Dip Coating

- Scratch-, impact- and hydrochloric acid resistant
- Fume-reduced painting process
- Solid prime layer for further coatings

Powder Coating

- Resistant to various chemicals
- Good weather performance
- Solvent-free



The tested coating system (siFramo End Support STA F and Beam Section TP F connected by Self Forming Screws FLS F) complies with EN ISO 12944-6 Corrosivity category C5M-high.



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