HIGH CORROSION PROTECTION – HCP

sikla

To meet high demands in corrosion protection

High Corrosion Protection
for maximum safety

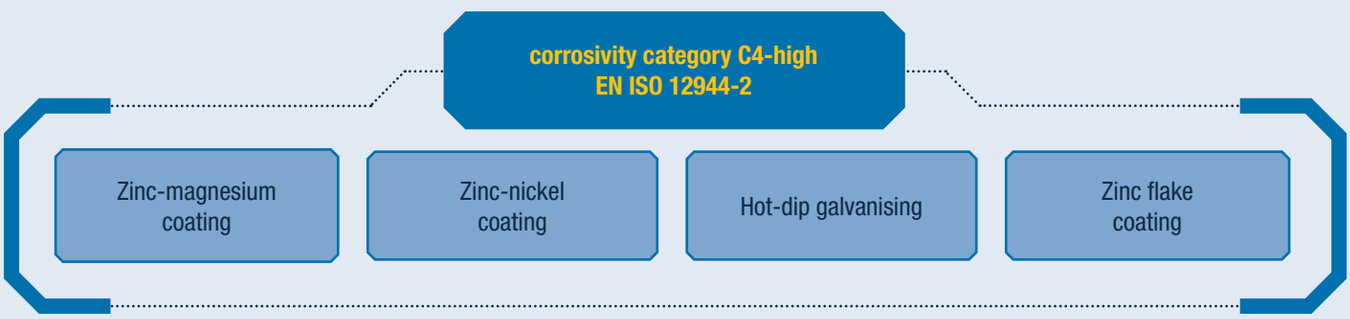
The effects of corrosion are often underestimated, although it can make support structures and installations unsafe or unstable. It is often necessary to completely replace components or systems.
With High Corrosion Protection solutions from Sikla, projects can be implemented easily and efficiently up to corrosivity category C4 with a standard product range.

Reliable corrosion protection is best achieved with zinc. Zinc protects steel from corrosion in two ways. On the one hand, a zinc-based separating layer creates a physical separation between the steel and corrosive environment. Zinc also creates a patina on the surface, which slows down the corrosion of the zinc itself. On the other hand, zinc and iron form a so-called “local element” in a humid environment. This releases electrons and slowly dissolves. The steel is preserved and, figuratively speaking, the zinc “sacrifices” itself for the steel.

HCP-protection system

Under the term “High Corrosion Protection” - HCP we offer you optimum corrosion protection. Components with the HCP protection system enable use up to corrosivity category C4-high.
In order to select the optimum coating system for you, we attach particular importance to the protective effect, the maintenance of the functionality of the product, e.g. thread mobility, market requirements and and economic efficiency.

Cantilever Bracket 41/41
after 1.440 h salt spray test



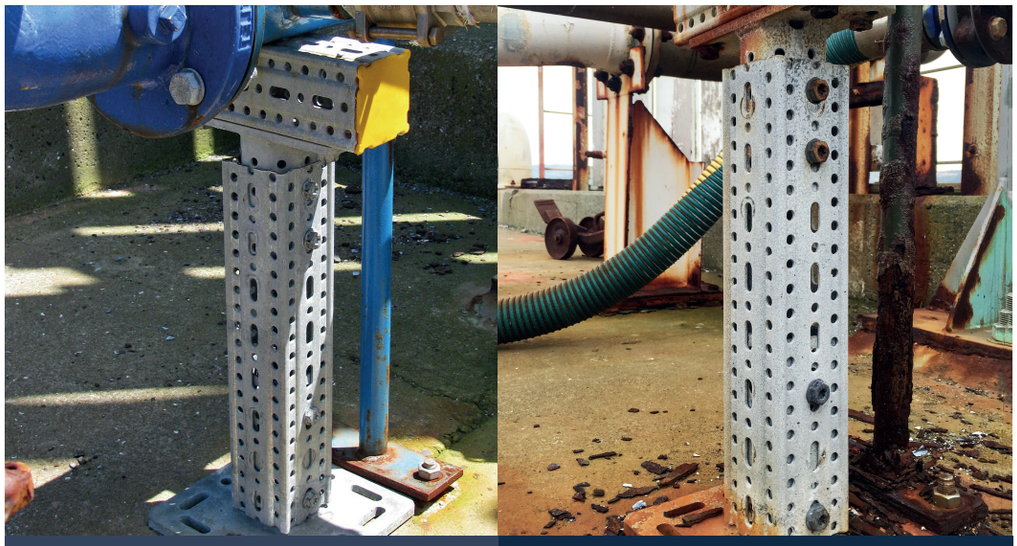
Thanks to the optimal choice of processes, we achieve significantly longer protection times for components, even with thin layers. This not only helps to preserve the environment and resources but also offers you more efficient and more convenient processing procedures.

The extensive HCP product range can be found in our Siconnect catalogue at www.sikla.com

Environmental conditions / Corrosion stress

Systematic corrosion protection planning requires the precise analysis of climatic site conditions. These can have a shortening effect on the protection period of the coating. The DIN EN ISO 12944-2 categorises climatic corrosivity categories. In addition, corrosive stress e.g. through storage, contact with damp building materials and chemicals must be taken into account.

Looking back on years of practical expierience, Sikla can assist and advise you. Please do not hesitate to contact us.



Conventional and siFramo 80 T-supports
A few months after installation

After 6 years of weathering – Offshore (CX)

High Corrosion Protection Individual – for highest demands

For special applications, e.g. outdoors, near the sea or in aggressive atmospheres, there are higher demands on corrosion protection. Sikla offers you individually tailored corrosion protection for these applications. Choose or combine from different types of coating:

Zinc lamella coating

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

Cathodic dip coating (KTL coating)

- Scratch-resistant and resistant to impact and hydrochloric acid
- Low-pollution painting process
- Perfect basis for further coatings

Powder coating.

- Chemical resistant
- High weather resistance
- Solvent-free

iLF Forschungs- und Entwicklungsgesellschaft Lacke und Farben mbH

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Fichtestraße 29 | D-39112 Magdeburg

TEST CERTIFICATE

Test report-No.:	150104/140641.1
Client:	Sikla GmbH In der Lache 17 D – 78056 Villingen-Schwenningen
Subjects of testing:	coated test panels and coated end support STA and beam section TP F connect with self forming screws FLS according to the assembling instruction of the client
coating systems:	Substrate: Steel, Sa 2 ½ blasted Conversion layer: dip zinc phosphating, Granodine 958 company Henkel
Coating:	cataphoretic coating, Cathoprime QT 82-7035 company BASF top coat: RAL 7035 smooth, Code 87446 PE/P/HD company Inver

The tested coating system fulfils the requirements in accordance with DIN EN ISO 12944-6 corrosivity category C 5M high.

Magdeburg, 10.04.2015
iLF Forschungs- und Entwicklungsgesellschaft Lacke und Farben mbH

Dipl.- Chem. Cornelia Dreyer
Lab supervisor Application Technology

Fichtestraße 29 | D-39112 Magdeburg | Tel.: +49 (0)391 6056-0 | Fax: +49 (0)391 6056-217 | mail@ilf-sikla.de | www.ilf-sikla.de
Stadtsparkasse Magdeburg | BLZ: 810 532 72 | Kto.: 34 172 260 | Nord/LB Magdeburg | BLZ: 250 500 00 | Kto.: 722 014 026
Geschäftsführer: Dr. Ulrich Westerwelle | Sitz der Gesellschaft: Magdeburg
USt-IdNr.: DE 163826357 | Steuer-Nr.: 102/110/00843 | AG Stendal HRB 107162

DAkkS Deutsche Akkreditierungsstelle D-PL-18604-01-00

The tested coating structure (siFramo End Support STA F and Beam Section TP F connected by Self Forming Screws FLS F) fulfils the requirements of DIN EN ISO 12944-6 Corrosivity category C5M-high.

sikla

Sikla GmbH
In der Lache 17
D-78056 VS-Schwenningen

International Sales
inquiries.de@sikla.com
Phone +49 7720 948 0

www.sikla.com

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