

Coating system XC

Information overview



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Coating system XC

The duplex system consisting of zinc plating and powder coating



Product description

Designed for extreme conditions and designed for a particularly long service life: the new XC coating system. Wherever special protection against highly corrosive environments is required, we deliver top performance. With a protection duration of over 15 years and an independent classification in the protection duration C5, we offer more than just protection. The new coating system gives you the assurance that your systems will work reliably for a long time even under extreme environmental conditions for steel.



Industrial areas



Salt mines



Installations
near the coast



Advantages

- The duplex system consisting of zinc plating and single-layer powder coating
- From 150 µm Powder coating
- From 55 µm zinc coating thickness
- Particularly smooth and even surface
- Very good adhesion to the component
- No formation of bubbles in the coating
- Repair of even larger damage possible

Reliable protection in highly corrosive environments

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Safe cable routing and safe energy transfer posed challenges for our customers, especially in highly corrosive environments. Responsible planners and project developers know, that the correct selection of a coating, appropriate to the situation, is particularly important where zinc coating alone is not enough.

If the corrosion resistance of the material is insufficient, innovative coatings must protect the material from corrosion. This is the only way systems can be safely operated in these environments for years and decades.

PUK's XC Duplex Coating System meets the C5 corrosion category with the longest protection time for cable support systems on the market. It consists of a zinc layer and a particularly uniform and bubble-free powder coating.

In addition to the duration of protection, the XC coating system also scores with its economic advantages compared to stainless steels from corrosion protection class 5. If increasing quality requirements for installation, service life and maintenance are included in the future-oriented plant management, PUK's XC coating system is the only right choice.

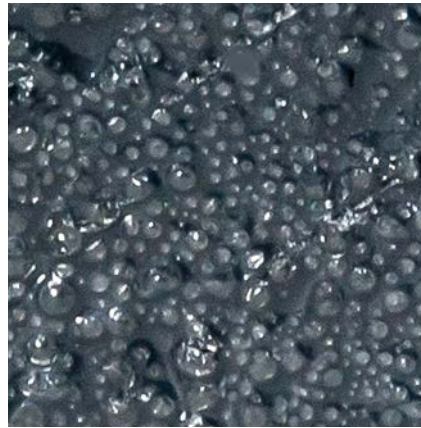
Reliable and economical

		XC	
		C5 short: up to 7 years	C5 medium: 7-15 years
		C5 long: 15-25 years	
Corrosivity category	Outdoor	Indoor	
C1 nonsignificant	-	Heated buildings with neutral atmosphere	
C2 low	An Atmosphere with a low degree of pollution (mostly rural)	Unheated buildings where condensation may occur	
C3 moderately	An Urban and industrial atmosphere with moderate SO2 load, coastal atmosphere with a low salt concentration	Production rooms with high humidity and some contamination	
C4 strongly	An industrial and coastal atmosphere with a moderate salt load	Chemical plants, swimming pools, coastal shipyards and boat harbours	
C5 extremely strong	Industrial areas with high air humidity and aggressive atmosphere, coastal atmosphere with a high salt concentration	Buildings or areas with almost constant condensation and heavy contamination	
CX extreme	Offshore areas with high salt loads and industrial areas with extreme humidity and aggressive atmospheres as well as subtropical and tropical atmospheres.	Industrial areas with extreme humidity and aggressive atmosphere	

A surface as strong as it looks



No bubble formation during the drying process.



Extremely uniform and bubble-free

Due to the special powder composition of **XC**, the zinc-Outgassing during the drying process diffuses to the outside. The result: a smooth surface without bubbles and thus optimum protection.

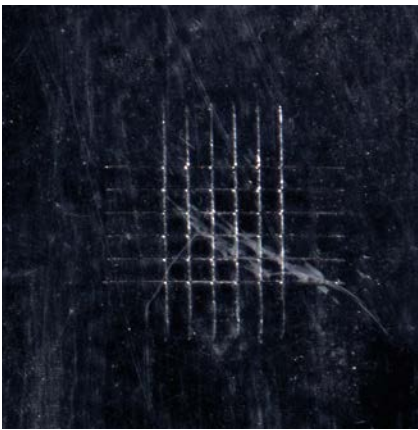


Punch tear test shows little to no detachment.

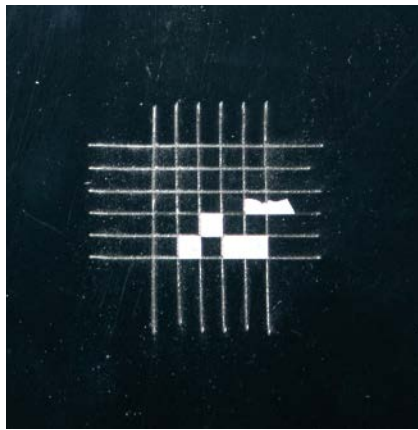


Extremely stable and high break resistance

In various tests, **XC** has already proven its longevity against external influences and damage. A direct comparison with alternative solutions clearly shows the advantages of the new **XC** duplex coating system.



The Cross-cut test shows no effect.



Extremely flexible even under heavy loads

Thanks to its flexible material properties, the **XC** coating system is able to even out minor damage itself. Larger damages, such as cut edges, can also be easily repaired.



Even deep damage shows no detachment.



Extremely adhesive


Thanks to its excellent adhesion properties, the **XC** coating system remains in place, even if the damage extends to the steel.

Tested in the laboratory and around the world

The new **XC coating system has shown its permanent protective function in the following tests:**

- Corrosion protection test according to DIN EN ISO 12944-6
- Constant climate test according to DIN EN ISO 6270-2
- Salt spray test according to DIN EN ISO 9227
- Climate change test with salt spray according to VDA 233-102
- Chemical resistance DIN EN ISO 2812-1
- Water vapour permeability test DIN EN ISO 7783
- Artificial weathering DIN EN ISO 11341





In addition to laboratory tests, we are currently setting up test benches in various parts of the world to additionally test the system under real conditions. These can be found in Canada, Turkey, Russia and India. So you benefit directly from our local experience.

Our synergy concept for your benefit

With us, you can take advantage of the collective experience of three established manufacturers that combine products and expertise in one comprehensive offer. That is the PohlCon synergy concept.



Full service consulting

Our extensive network of consultants is available to answer all of your questions about our products on site. From planning to deployments, enjoy personal support from our qualified professionals.



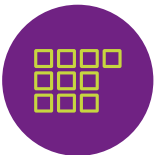
Digital solutions

Our digital offerings offer targeted support in planning with our products. From tender texts through CAD details and BIM data to modern software solutions, we offer you tailored support for your planning.



7 areas of application

We think in holistic solutions, which is why we have grouped our products into seven areas of application for you where you can benefit from the synergy of the PohlCon product portfolio.



10 product categories

To help you find the right product in our extensive range even faster, the products are grouped into ten product categories so you can navigate clearly between our products.



Individual special solutions

There's no mass produced-product on the market that is suitable for your project? We master extraordinary challenges with the many years of expertise of our three manufacturing brands in the sector of individual solutions, allowing us to realize your unique construction projects together.



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PohlCon GmbH

Nobelstr. 51
12057 Berlin
Germany

T +49 30 68283-04
F +49 30 68283-383

www.pohlcon.com