

Coating system XC

Information overview

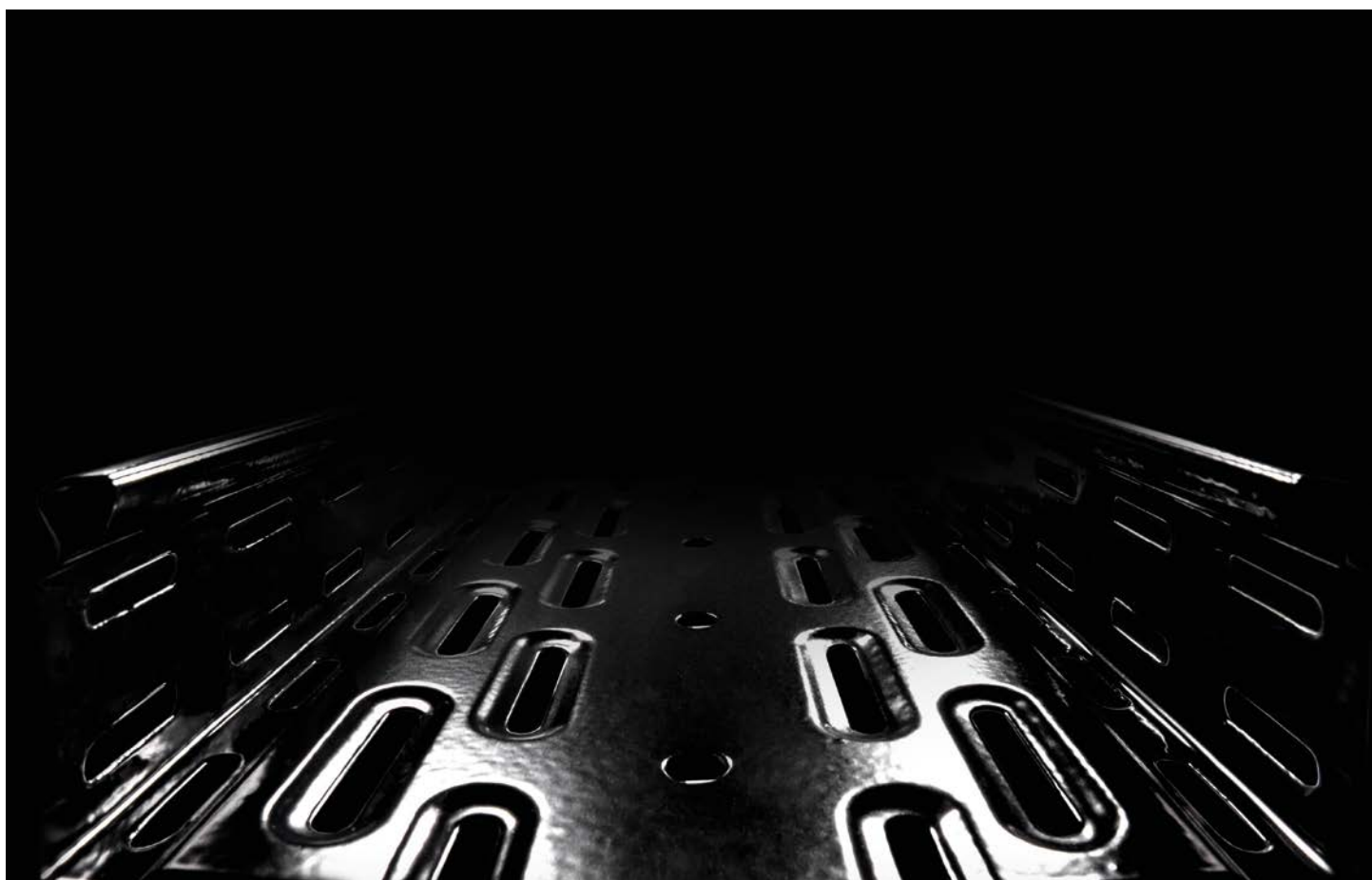


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Coating system XC

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

Safe cable routing and safe energy transfer posed challenges for our customers, especially in highly corrosive environments.

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.

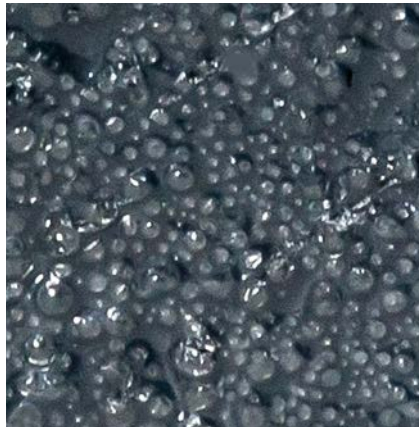
Reliable and economical

			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.

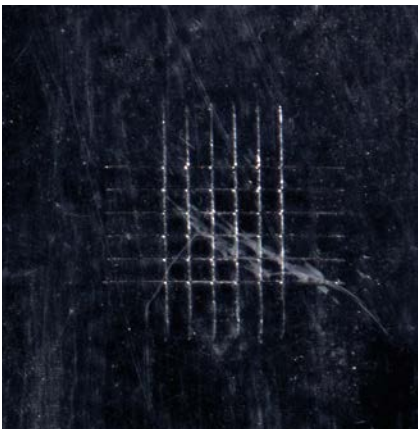


Punch tear test shows little to no detachment.

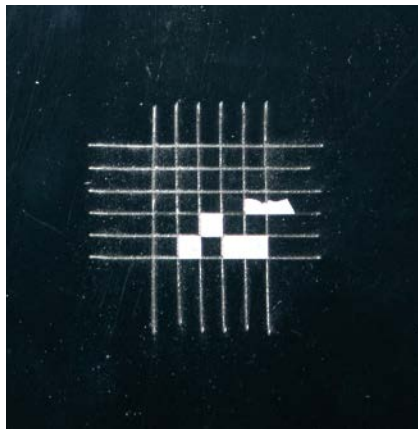


Extremely stable and high break resistance

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.

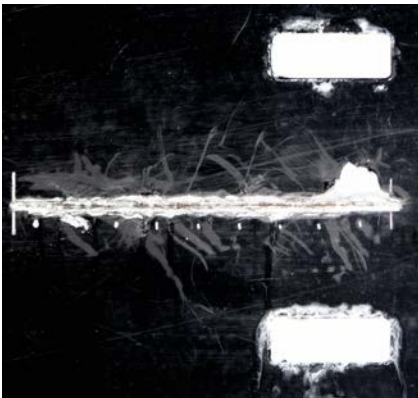


The Cross-cut test shows no effect.



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.

Service

A strength you can rely on.

We accompany you in every phase of the project. As your partner we want to find optimal solutions for the challenges at hand. Be it per telephone, via internet or in person on site.



There for you:

Our technical consultants.

Our experts will happily answer all questions for your project with the goal in mind to find the best solution. You can find our contact persons at pohlcon.com



Full-Service:

Our assembly services.

Our fitters master over 1,000 construction projects every year. Small and medium-sized projects are supervised flexibly and close to our customers by the PohlCon subsidiaries. Experienced site managers are assigned to the respective locations to ensure that you always have your contact person in close proximity.



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You can find all data sheets of PUK products at www.puk.com. They unify the technical informations regarding material, load capacities and measures. Installation instructions give you a step-by-step overview of the installation process. Price lists are available too.



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