

XERVON®

WORKING FOR THE FUTURE

By no means just on the surface



> **Surface Technology**

Sound specialist knowledge, high levels of quality awareness and absolute reliability – all mean that XERVON is a highly sought-after specialist for providing long-lasting surface protection for plants and buildings all around the world

xervon.com

Protecting & preserving values

Whether it is industrial corrosion protection, coating techniques or concrete repair – XERVON has been an international expert for durable solutions for many years, applying the most diverse processes in the area of surface technology. We ensure your plants and buildings have long-lasting protection – reliably, safely and cost effectively.

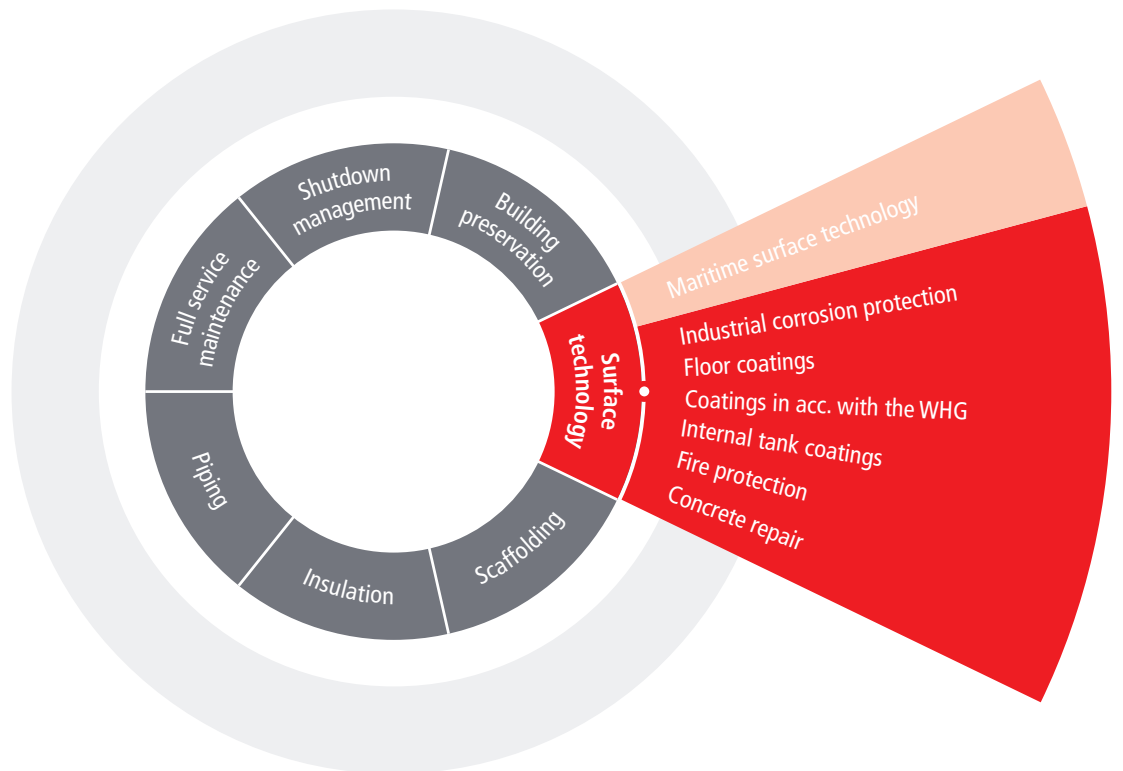
Developing innovative processes

XERVON's specialists have pushed forward the development of surface technology by implementing a multitude of new technologies. We can offer you an ideal range of innovative techniques – be it in corrosion protection, coating or concrete repair. Whatever the area: XERVON stands for a wealth of specialist knowledge, assured quality and absolute reliability.

Our international and high-capacity services

As a XERVON customer, you benefit from a wide range of services covering all aspects around your core business. We offer individual solutions with minimised interfaces as well as greater efficiency and cost effectiveness – and guarantee flexibility thanks to our strong resources. One of the main hallmarks of our company is the manner in which we continuously develop our network and areas of expertise. With around 8,000 employees working on three continents, XERVON is an international service provider that has the best possible set-up to meet the challenges of a wide range of sectors, in particular in the process industry.

Our business areas and core competences in surface technology



XERVON works in seven different business areas and offers numerous specialist services for each individual area

XERVON is also a specialist for maritime surface technology. Find more details about these areas in our "Maritime Surface Technology" brochure which we would be very happy to send to you!

For a long life

There is hardly any other field as diverse as corrosion protection and it requires the most extensive know-how. Whether it is the coating of a spherical tank, a steel girder for construction, piping, the hull of a ship or structural steelwork components: the XERVON experts always select the protection technique best suited to the given requirements and apply it in a professional and expert manner.

The right solution for each individual sector

For many years now, XERVON has been working in a variety of sectors, primarily in the chemical and petrochemical industries, steel and shipbuilding as well as in the energy sector and the construction industry. The requirements of all these sectors are extremely complex and demand maximum levels of performance which we have demonstrated in numerous projects. XERVON customers benefit from our wide-ranging portfolio of services that covers diverse areas of corrosion protection.



The specialists at our subsidiary XERVON PALMERS Ltd also carried out coating work on one of the world's largest railway bridges – the Forth Rail Bridge in Scotland – giving it long-lasting protection

> Use our extensive range of services:

Portfolio: surface preparation

- Cleaning, stripping, alkaline cleaning, manual and mechanical processes
- Dry blasting techniques with mobile or stationary equipment including the recycling process
- Wet blasting and ultra high-pressure water-jetting
- Consulting, engineering and execution conforming to international standards for all types of steel surfaces
- Compressed air and machine blasting in accordance with DIN EN ISO 12944, Part 4

Portfolio: surface coating

- Manual processes such as painting and rolling
- Conventional compressed air spraying
- Low-pressure spraying
- Airless spraying
- Electrostatic spraying
- Hot spraying
- Metal spraying
- Powder coating
- Specialized fire protection systems on steel
- Organic or metallic coatings and linings
- Non-metallic inorganic coatings
- Special coatings for extremely high mechanical stress



Our customers appreciate our detailed knowledge of the sectors they work in and our experience of specific projects – both of which enable us to deliver high quality and cost-effective results

A coat to last a lifetime

Modern construction chemistry offers a multitude of possibilities to protect complete buildings or individual components by coating them. Our customers can rely on us providing them with expert advice as well as on us executing the work proficiently – no matter what the task.



Our comprehensive quality assurance activities include measuring layer thickness and drawing up inspection records for TÜV

Coatings for every purpose

Coatings can be applied when a new building is being constructed or when an older structure is being renovated. XERVON has the right solution whatever the situation may be – and offers its customers a wide range of highly specialised processes to ensure their plants and buildings are protected in the best possible way.



Only coatings that have been applied in the best possible way can provide long-lasting protection – this is precisely what XERVON does

Available only at XERVON in Germany: Plastacor®

A good example for our specialty services is our patented coating system, Plastacor®, an extremely durable, 2-component epoxy resin. XERVON is the only company in Germany to offer this system and uses it both at home and abroad. Plastacor® is primarily used in tube sheets, condenser water boxes, oil and air coolers, heat exchangers and cooling water pipes as well as in drinking water tanks. Nowadays, almost every power plant in Germany relies on Plastacor®.

A genuine cost-effective alternative:

The cost of using the unique and long-lasting Plastacor® coating is a fraction of what you would have to pay to completely replace a tube sheet!



Inner values can be strong, too:

Internal tank coatings

Internal tank coatings are extremely complex. XERVON is one of the few companies active in this special area to have so many decades of experience. We can offer you solutions that are as ideal as they are cost effective – especially for tanks that hold corrosive or aggressive liquids or liquids hazardous to water. All such tanks are subject to the stringent legal stipulations set out in the Federal Water Act when they need to be coated. XERVON is well versed in all these requirements and is able to use its extensive experience gathered from the numerous projects it has carried out at crude oil tank farms and refineries, in the chemical industry and at plants processing hazardous materials. We have already successfully completed over 100 internal tank coating projects in the area of hot spraying alone. Our customers are, therefore, playing it safe when they work with us – no matter whether we are carrying out new coating work or repairing existing coating that has become damaged.

The right material for every purpose

Our internal coatings and linings are made of epoxy resin, conductive epoxy resin, polyurethane, polyurea, vinyl resins, phenolic resins or of diverse types of film. Depending on the material, we apply them using hot spraying up to 80°C and at a pressure of 300 bar, using compressed air or airless spraying or sealing them if the material is a film. By law, these coatings have to be inspected at regular intervals depending

on how aggressive the media being stored is: we are the right contact person here, too, when damaged coatings need to be repaired.

Special requirements – special coating processes

Special methods need to be used if complex projects are to be executed in the best possible way. For this reason we offer the following solutions for dealing with more complicated challenges:

- Flame and arc spraying: thermal coating with austenitic steel and chrome-nickel alloys as well as thermal spraying of zinc, aluminium and aluminium alloys
- Protection against wear and tear using Protecta: an extremely durable PU coating with an elastic structure applied using airless spraying

> We can offer you:

Portfolio: coating techniques

- Floor coatings
- Plastic coatings
- Coatings in acc. with the WHG (Federal Water Act)
- Mineral coatings for drinking water tanks in acc. with DVGW / SITW
- Preventive concrete protection
- Coatings for civil engineering structures
- Waterproofing systems applied as liquid membrane



XERVON has already carried out well over 200,000m² of internal tank coatings – and has always achieved the highest levels of quality and cost effectiveness!

> Benefit from our range of services:

- Shotcrete in acc. with German Standard DIN 18551
- Reinforcement of concrete building components with carbon-fibre reinforced plastic strips
- Crack injections
- Subsequent proofing (gelation)
- Bridge repair
- Wall repair and preservation
- Industrial floor repair
- Repair of sewers and wastewater plants



Thoroughness going deep

Concrete is one of the most frequently used building materials. However, no matter how easy it is to use, it is extremely difficult to repair once it is damaged. To prevent demolition, the XERVON experts work out a specialist solution for each and every individual case of damage and by doing so provide the buildings with a new future.

Removing visible and invisible problems

There is more to professional building renovation work than just removing the visible symptoms. We get to the bottom of every problem, replace the damaged substance and provide precise proofing of the contact and external surfaces. The final system-compatible coating protects and ensures the long-term function and stability of your building, whether in structural or civil engineering.

Our experts' certificates

XERVON employees are experts in their field and are a guarantee that the work executed will be of a high quality.

Depending on their area of work, they have the following qualifications:

- German SIVV certification (preservation, repair, joining & reinforcing of concrete elements) in acc. with ZTV-ING
- E-certification in acc. with German Standard DIN 1045
- Injector leaders for shotcrete and SPCC
- Licence in acc. with the WHG (Federal Water Act)
- Verification of suitability for carbon-fibre reinforced plastic strips/steel mounting plates
- DVGW certificate (German Technical and Scientific Association for Gas and Water)

Whether we are renovating an underground car park or a dam – we always carry out our customers' projects with care and precision no matter how big or how small the project



Safety is our hallmark

Work safety for employees, responsibility towards people and the environment: more and more attention is being paid to risk management in industrial businesses. In order to be able to meet these growing demands, XERVON has set itself high quality standards that are continuously being assessed and improved.



Rapid availability of staff and materials, bespoke solutions and, last but not least, completely fulfilling all work safety requirements – this is what XERVON stands for

Identifying hazards, preventing accidents

A good safety record is always a sign of high quality standards and high job efficiency. In order to be able to continuously optimise our above-average standards, we have developed a special instruction programme for our employees. This also applies in particular to our managers who are taught, among other things, how to avoid accidents caused by human behaviour. Our aim is to permanently sensitise all our employees and establish an optimal safety culture for the benefit of all those involved.

Controlled management of subcontractors

The high safety standards, which apply to our staff, are, of course, also valid for the area of subcontractor management. We work exclusively with reliable, accredited and in-house approved partner firms who we are sure can fulfil our quality standards. Moreover, we use an SAP-based system that continuously monitors all parameters required for the accreditation and informs us of any deviations.

The high levels of satisfaction among our customers prove we are right: we have developed long-term partnerships with many of our clients – also and especially when complex tasks need to be carried out

Be on the safe side with XERVON

Our high standards are documented by numerous accreditations and certificates. These include among others:

- DIN EN ISO 9001 (quality management)
- DIN EN ISO 14001 (environmental protection)
- KTA 1401 (quality management for nuclear plants)
- OHSAS 18001 (work safety)
- SCC^P (unrestricted certification inc. petrochemical industry)



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XERVON is part of the REMONDIS group, one of the world's largest recycling, service and water companies. The company group has more than 500 branches and associated businesses in 34 countries across Europe, Africa, Asia and Australia. With over 30,000 employees, the group serves around 30 million people as well as many thousands of companies. The highest levels of quality. Working for the future.

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