

**BERGOLIN** PROTECTIVE COATINGS

Bergolin Protective Coatings

Exceptionally Resistant



**BERGOLIN**  
Creating Your Coatings

# Exceptionally Resistant

Extreme resistance – for any purpose

**Exceptionally Resistant - an apt description for the properties of Bergolin corrosion protection systems. They protect the steel surfaces and structures that face a range of different environmental loads and not only prevent any impairment of functionality and safety, but even economic losses as well.**

These coatings offer optimal resistance, especially to mechanical and chemical action, extreme temperatures and UV radiation and are thus suitable for a wide variety of applications.

As is customary with Bergolin coating solutions, our corrosion protection systems are accurately matched to our customers' requirements and applications, guaranteeing continuous, construction site-friendly and economical processing.

**Fields of application:** interior tank linings, exterior tank coatings (earth-covered gas tanks and above-ground tanks), containers and pipe coatings





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## Other coating solutions

In addition to our top sellers, our product range includes numerous other coating solutions, which in addition to those listed cover a number of other applications in corrosion and building protection. These include, for example, steel for civil engineering hydraulics, surfaces in contact with crushed rock and industrial floors.

Just talk it through with your personal customer advisor, who will work with you to find a customised solution. Contact details can be found on the back of this brochure.

# Interior tank lining

The optimal solution for storage from chemicals to food

**In interior tank lining, resistance to chemicals is the foremost consideration. However, electrical conductivity to avoid explosive reactions or promote physiological harmlessness also play an important role.**

The right solution for all your requirements can be found in Bergolin's range of solvent-free tank coatings. They can also be applied without primer on the internal tank surfaces, impressing with their simple processing and high layer thicknesses of up to 1000 microns in one operation (airless).

The quality of the coating systems has been tested and approved by institutes such as the German Institute for Building Technology (DIBt). To cover all areas of application, some coatings also have food approvals.

**Fields of application:** includes separators, refinery tanks, earth-covered tanks, storage tanks for the chemical and oil industries, pipes, food and drinking water tanks and concrete surfaces



## Top seller

	Steopox 246	Steopox 248-2 HCB Multicolor	Steopox 268
Base	2K epoxy resin coating	2K epoxy resin coating	2K epoxy resin coating
Colour	Pigmented (sky blue, blue-grey)*	Pigmented (black)*	Pigmented (various)
Substrate	Steel, zinc, aluminium, cement, concrete, screed		
Resistances	Petrol, oil, tar, waste water, salt water	Crude oils, aliphatic hydraulic oils, diesel, gasoline, aviation fuel, alkalis, detergents, diluted organic and inorganic acids, xylene, toluol	
Largely Resistances	Solvents, dilute acids and alkalis	—	—
	Benefits		
	<ul style="list-style-type: none"><li>• Solvent-free</li><li>• Thixotropic</li><li>• Can be applied with 1K airless and 2K hot spraying method</li><li>• Free of pores, smooth, tough and hard</li><li>• Dry film thickness of up to 700 microns in one application</li><li>• Tested according to DIN EN 858-1 and BRL 5251</li></ul>	<ul style="list-style-type: none"><li>• Solvent-free</li><li>• Dissipative</li><li>• Can be applied with 1K airless and 2K hot spraying method</li><li>• Extremely mechanically and chemically resistant</li><li>• Good adhesion</li><li>• Dry film thicknesses of up to 1000 microns in one application</li><li>• Approved by DIBt</li></ul>	<ul style="list-style-type: none"><li>• Solvent-free</li><li>• Highly resistant to chemicals</li><li>• 1K airless spray application</li><li>• Very good adhesion</li><li>• Extremely mechanically resistant</li></ul>
	Tenaxon T 247-1 KTW	Tenaxon T 257 LM	Tenaxon T 297 HD
Base	2K epoxy resin coating	2K epoxy resin coating	2K epoxy resin coating
Colour	Pigmented (light grey)*	Pigmented (light grey)*	Pigmented (sky blue, blue-grey)*
Substrate	Steel, zinc, aluminium, cement, concrete, screed	Steel, stainless steel, aluminium	Steel, zinc, aluminium, cement, concrete, screed
Resistances	Water, mineral water, brine, sea water, waste water, diluted organic and inorganic acids, liquors, alkalis, detergents		—
	Benefits		
	<ul style="list-style-type: none"><li>• Solvent-free</li><li>• 1K airless spray application</li><li>• Suitable for drinking water</li></ul>	<ul style="list-style-type: none"><li>• Solvent-free</li><li>• 1K airless spray application</li><li>• Suitable for food (Food approval)</li></ul>	<ul style="list-style-type: none"><li>• Solvent-free</li><li>• Thixotropic</li><li>• 1K airless spray application</li><li>• Free of pores, smooth, tough and hard</li><li>• Dry film thicknesses of up to 700 microns in one application</li><li>• Tested according to DIN EN 1825-1 and BRL 5252</li></ul>

\* Other colours available on request



# External tank coating

Always the best protection – both above and below ground

**External tank coatings are subjected to different loads. In earth-covered gas tanks, the resistance to root formation, microbial degradation and cathodic corrosion is of particular importance. Whereas the loads on above-ground tanks are heavily dependent on weather conditions such as rain, frost and UV radiation.**

For both applications, Bergolin can supply you with the perfect coating system that can be adapted to your specific needs. In addition to corrosion it also prevents any concomitant cracking and ensures that a leak of the tank contents is virtually impossible. Thus Bergolin external tank coatings protect against

health and safety risks, downtime and environmental damage can be avoided, together with the associated costs that as a rule far exceed the value of the tank contents itself.

Thanks to their resistance to chemicals, weather, UV rays and natural expansion and contraction, our coatings are virtually maintenance free. Should mechanical damage nevertheless occur, we have a powerful repair system.

**Fields of application:** includes earth-covered gas tanks, above ground LPG tanks, refinery tanks



# Earth-covered gas tanks

## Coatings



### Top seller

	Tenaxon T 245 HS	Steodur ET 300	Steodur VS 84 ET
Base	2K epoxy resin coating	2K polyurethane coating	2K polyurethane coating
Colour	Pigmented (moss green, grey green, canary yellow)*	Pigmented (various)	Pigmented (various)
Substrate	Steel	Steel	Steel
Resistances	Fresh water, salt water, household cleaners		
Largely Resistances	Gasoline, heavy fuel oils, aromatic hydrocarbons		
	Benefits		
	<ul style="list-style-type: none"><li>• Solvent-free</li><li>• Tar-free</li><li>• High chemical resistance in aggressive atmospheres</li><li>• High film thicknesses in one operation</li><li>• Tested according to DIN 4681 Part 3 and DIN EN ISO 15711</li></ul>	<ul style="list-style-type: none"><li>• Solvent-free</li><li>• Wear and tear resistant</li><li>• Shrinkage-free curing from 1 °C</li><li>• Viscoplastic</li><li>• Can be subject to high mechanical loads</li><li>• High film thicknesses in one operation</li></ul>	<ul style="list-style-type: none"><li>• Solvent-free</li><li>• Wear and tear resistant</li><li>• Shrinkage-free curing from 1 °C</li><li>• Viscoplastic</li><li>• Can be subject to high mechanical loads</li><li>• High film thicknesses in one operation</li></ul>

\* Other colours available on request

# Above ground tanks

Primer, Intermediate coating



## Top seller

	Tenaxon T 569	Epex Zinkstaub
Base	2K epoxy resin primer	2K epoxy resin zinc dust primer
Colour	Pigmented (red-brown)*	Pigmented (grey)*
Substrate	Steel, zinc, aluminium	Steel
Benefits		
	<ul style="list-style-type: none"><li>• Fast drying</li><li>• Excellent adhesion</li><li>• Weldable</li><li>• Universally recoatable without maximum time interval</li></ul>	<ul style="list-style-type: none"><li>• Low solvent</li><li>• Excellent corrosion protection</li><li>• Based on corrosion protection according to TL / TP-KOR-steel structures, sheet 87</li><li>• Temperature resistant up to 150 °C</li></ul>

	Epex ZP Grund	Eisenglimmer 80
Base	2K epoxy zinc phosphate primer	2K epoxy micaceous iron oxide intermediate coating
Colour	Pigmented (sand yellow, oxide red)*	Pigmented (grey mica)*
Substrate	Steel	Steel, zinc, aluminium
Benefits		
	<ul style="list-style-type: none"><li>• High corrosion protection</li><li>• Can be applied in thick layers</li><li>• Based on corrosion protection according to TL / TP-KOR-steel structures, sheet 87</li></ul>	<ul style="list-style-type: none"><li>• Excellent corrosion protection</li><li>• Good mechanical and chemical resistance</li><li>• Based on corrosion protection according to TL / TP-KOR-steel structures, sheet 87</li><li>• Can be applied in thick layers</li></ul>

\* Other colours available on request



## High-solid coatings



### Top seller

	Epex Coating	Tenaxon T 555 CS
Base	Epoxy resin coating	2K epoxy resin coating
Colour	Pigmented (dark grey)*	Pigmented (grey)*
Substrate	Steel, old coatings	Steel, zinc, aluminium, cement, concrete, screed
Benefits		
	<ul style="list-style-type: none"> <li>• Low solvent</li> <li>• High solids coating</li> <li>• Very good penetration and wetting on hand prepared steel and old coatings</li> <li>• Can be used both as a primer and as topcoat</li> </ul>	<ul style="list-style-type: none"> <li>• Low solvent</li> <li>• Excellent adhesion on both dry and wet surfaces</li> <li>• Very good penetration of residual rust and thus perfectly suited as a repair material</li> </ul>

	Superdur 2K-Decklack	2K-PUR-Einschichtlack
Base	2K polyurethane topcoat	2K polyacrylate one-coat
Colour	Pigmented (grey mica, green mica)*	Pigmented (various colours)
Substrate	Steel	Steel
Benefits		
	<ul style="list-style-type: none"> <li>• Good resistance to chemical and mechanical loads</li> <li>• Can be applied in thick layers</li> <li>• Based on corrosion protection according to TL / TP-KOR-steel structures, sheet 87</li> <li>• Excellent colour retention</li> </ul>	<ul style="list-style-type: none"> <li>• High corrosion protection</li> <li>• Can be applied in thick layers</li> <li>• Good weather resistance</li> <li>• Suitable for above ground LPG tanks</li> <li>• Very good UV resistance</li> </ul>

\* Other colours available on request

# Biogas plants

## Coating

**Digesters are permanently exposed to highly aggressive media such as liquid manure, slurry and silage liquor. The maintenance of the internal coating is therefore of central importance.**

With Steopox 258 JGS you have a tar and solvent-free coating system, which impresses with both its superior resistance and its very simple processing. You can be sure we have the best possible solution for you.

## Top seller

### Steopox 258 JGS

Base	2K epoxy resin coating
Colour	Pigmented (black, grey, blue)
Substrate	Steel, zinc, aluminium, reinforced concrete
Resistances	Liquid manure, silage liquors, biogenic sulphuric acid as well as all chemicals produced in biogas plants

### Benefits

- Tar and solvent free
- Temperature resistant up to 50 °C
- Flexible application
- Superior adhesion to concrete without primer
- Crack bridging
- Very good adhesion



# Concrete adhesive

## Putty

**Bergolin’s concrete adhesive is used for durable adhesion on concrete surfaces.**

These include interior and exterior concrete surfaces, the cementing and bonding of joints, concrete walls, PVC pipes and prefabricated concrete components.

The concrete adhesive is extremely mechanically and chemically resistant and thus able to withstand heavy loads.

**Fields of application:** sewers, wells, separators, concrete tanks, concrete shafts, rain water tanks and cisterns



### Top seller

	Steopox Spachtel	Steodur Spachtel
Base	2K epoxy resin putty	2K epoxy resin putty
Colour	Pigmented (various)	Pigmented (various)
Substrate	Steel, zinc, aluminium, cement, concrete, screed	Steel, zinc, aluminium, cement, concrete, screed
Resistances	Petrol, oil, tar, waste water, salt water	—
Largely Resistances	Solvents, dilute acids, alkalis	Fresh water, salt water, household cleaners
Benefits		
<ul style="list-style-type: none"><li>• Solvent-free</li><li>• Extremely mechanically and chemically resistant</li><li>• For indoor and outdoor concrete surfaces, cementing and bonding joints, concrete walls, PVC pipes and prefabricated concrete components</li><li>• Especially for sewers, wells, separators, concrete tanks, rainwater tanks, cisterns, etc.</li></ul>		<ul style="list-style-type: none"><li>• Solvent-free</li><li>• For indoor and outdoor concrete surfaces, cementing and bonding joints, concrete walls, PVC pipes and prefabricated concrete components</li><li>• Especially for sewers, wells, separators, concrete tanks, rainwater tanks, cisterns, etc.</li></ul>



# Resistance list

## Coatings with high chemical resistance

Tested at 20 °C, **in bold up to 60 °C**

Assessment basis and coating thicknesses  
of about 500 microns

	Steopox 246	Steopox 248-2 HCB Multicolor	Steopox 258 JGS	Steopox 268	Tenaxon T 245 HS	Tenaxon T 247 KTW	Tenaxon T 297 HD
Sewage							
Ad Blue (aqueous urea soln.)							
AHL (aqueous urea soln.)							
Ammonia 5%							
<b>Petrol</b>							
<b>Biodiesel, 100%</b>							
Butyl							
Chloride water <sup>1</sup>							
<b>Diesel fuel</b>							
IPA-based deicing fluid							
Ethyl acetate							
<b>Aviation Gasoline AVGAS<sup>2</sup></b>							
<b>Jet fuels<sup>3</sup></b>							
Fuel oil							
Heavy fuel oil							
Hexane							
Lime milk							
Lactic acid 5%							
Sodium chloride 30%							
Sodium hydroxide 50%							
<b>Rapeseed oil</b>							
Nitric acid 10%							
Hydrochloric acid 20%							
<b>Super unleaded w/o methanol</b>							
<b>Super unleaded E10</b>							
Toluol							
<b>Water</b>							
Xylene							

	resistant (internally tested at least 24 months in accordance with DIBt)
	conditionally resistant, spill-resistant (max. 7 days)
	not resistant

**Note:** The above list contains only a part of the tested media.  
Further test results are available on request.

1. In the usual concentration as in swimming pools
2. Grade 80; 100; 100 LL; 115
3. JP1, IP4, IP5



# 6 Reasons

to work with Bergolin

01

Plant

## Modern Plant

Bergolin moved to a new factory in 2012. Among other aspects, this modern facility offers a large application technology centre in which the majority of tests can be carried out. We also have large research and testing laboratories in which we continuously develop our products ensuring consistent quality.



02

Problem  
solving

## Individual Problem Solving

Many vendors work with a standard range with which in principle good coatings can be produced. In practice, this often leads to problems such as failing to adapt the product to the application plant or the environmental conditions prevailing on site. For this reason, users are obliged to continuously make concessions, leading to, for example, longer processing times or higher rejection rates and consequently higher costs.

Bergolin not only adjusts its coating systems to meet your needs, but develops completely new solutions with you, so you no longer have to accept any compromises.

03

Technical  
support

## Technical Support

Our application engineers are fully trained and have many years of experience with a wide variety of products and equipment. Whether in the planning and implementation of new systems or in solving application problems, our technicians always provide you with competent help. For us, a comprehensive onsite service is a matter of course.

We are in constant dialogue with processors and equipment manufacturers to continuously improve our expertise, enabling us to help our clients optimise their processes.



## 04 R&D

### Research and Development

About 30% of our employees come from the R & D sector – so we can guarantee that our products are always up to date. Working together with our customers we develop individual coating solutions that meet our customers' demands for innovation and efficiency- and even surpass them.



## 05 ATC

### Application Technology Centre

Our extensive application technology centre not only enables us to perform numerous tests directly in-house, thus avoiding any potential problems in advance, but also serves as a training centre. Here we are able to train your staff and prepare them for future tasks.

At these training courses, your employees learn how to use our coating systems in the most efficient way, so that mistakes and the associated poor coatings are minimised, saving both money and time.

## 06 QM

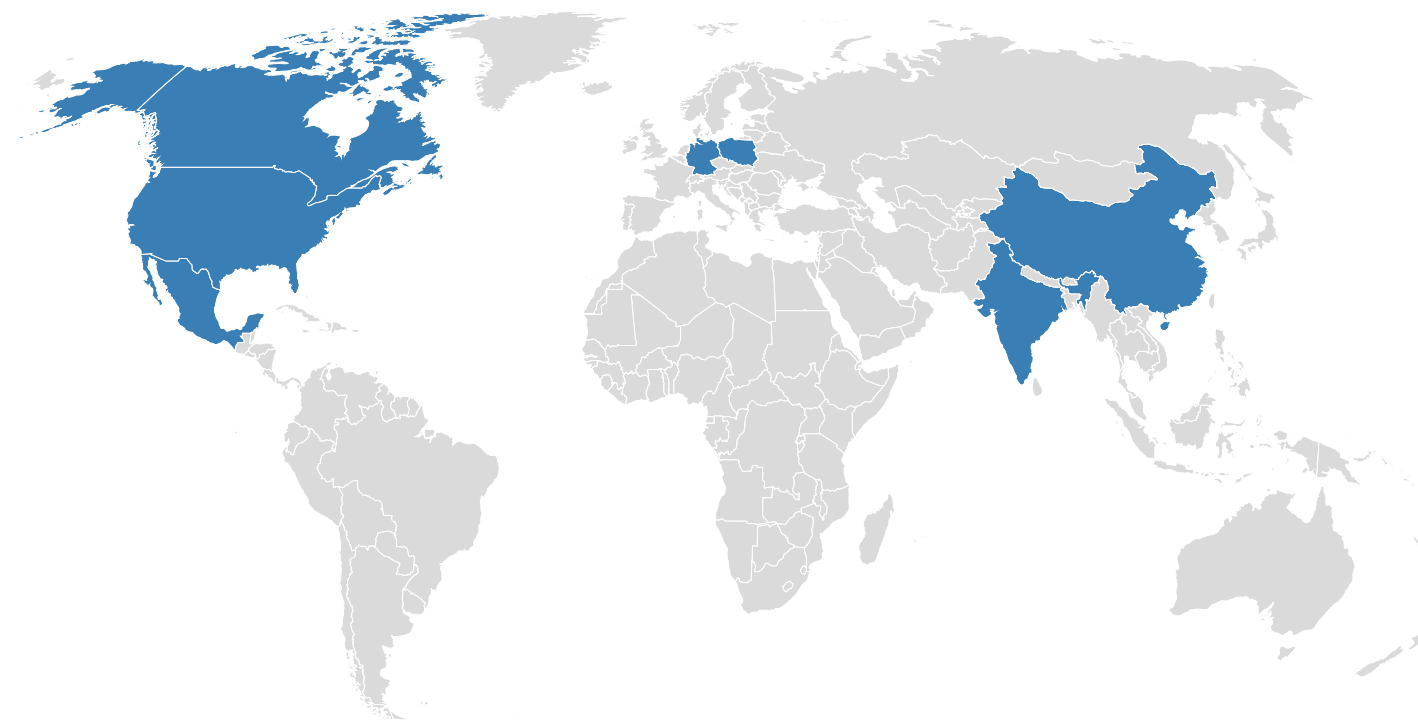
### Quality Management (DIN EN ISO 9001:2008)

At Bergolin, our focus has always been on the customer. We place the highest demands on our products and related services and meet comprehensive ranges of technical and environmental standards.

In order to be able to offer our customers the best possible mix of functionality and economy in the future, we are constantly working to improve our products and processes. This traditional corporate culture also finds expression in our certification to **DIN EN ISO 9001:2008**.



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